



SCARANO MARINE 1218 SW QST AVE FORT LAUDERDALE FL 33315 Phone: Email: Fax: - - -	Machine ID: ARIADNE Machine Year : NA	Component ID: 45697928 Component Make: CUMMINS Component Model: 6BTA 5.9 Component Year: NA Component Type : DIESEL ENGINE Component Location: PORT GENERATOR Sump Capacity: 5 Quarts	 MOTORCHECK LAB 2000 N FLORIDA MANGO RD UNIT 104 WEST PALM BEACH FL 33409 561-684-7799
	Component Description:		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
1308	2/6/2024	2049	100	15W40	UNKNOWN	UNKNOWN	No	2/6/2024	
Comments	WITH NO SIGNIFICANT LEAD OR TIN PRESENT, COPPER MOST LIKELY FROM SOURCE OTHER THAN WEAR, POSSIBLY OIL ADDITIVE. SILICON MOST LIKELY FROM SOURCE OTHER THAN DIRT, POSSIBLY ENGINE SEALANT (GASKET MATERIAL) AND/OR OIL ADDITIVE.								

Sample ID	Wear Metals(ppm)							Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additives (ppm)				
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1308	7	5	>2	175	14	>2	X	22	>2	>2	X	19	X	X	X	X	X	X	X	X


Sample ID	Contaminants				Physical Properties								
	Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	Vindex	V40C Limit	V100C Limit	Visc Mode
1308	-	0.5	>0.1	-	6.8	6.6	13.4	114	14.6	131	92 - 124	12.5 - 16.3	C

SCARANO MARINE 1218 SW QST AVE FORT LAUDERDALE FL 33315 Phone: Email: Fax: - - -	Machine ID: ARIADNE Machine Year : NA	Component ID: 45697739 Component Make: CUMMINS Component Model: 6BT 5.9 Component Year: NA Component Type : DIESEL ENGINE Component Location: STARBOARD GENERATOR Sump Capacity: 5 Quarts	 MOTORCHECK LAB 2000 N FLORIDA MANGO RD UNIT 104 WEST PALM BEACH FL 33409 561-684-7799
Component Description:			

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
1309	2/6/2024	877	100	15W40	UNKNOWN	UNKNOWN	No	2/6/2024	
Comments	WITH NO SIGNIFICANT LEAD OR TIN PRESENT, COPPER MOST LIKELY FROM SOURCE OTHER THAN WEAR, POSSIBLY OIL ADDITIVE. SILICON MOST LIKELY FROM SOURCE OTHER THAN DIRT, POSSIBLY ENGINE SEALANT (GASKET MATERIAL) AND/OR OIL ADDITIVE.								

Sample ID	Wear Metals(ppm)							Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additives (ppm)				
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1309	6	>2	>2	95	14	3	X	21	<2	>2	X	38	X	X	X	X	X	X	X	X


Sample ID	Contaminants				Physical Properties								
	Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	Vindex	V40C Limit	V100C Limit	Visc Mode
1309	-	0.3	>0.1	-	6.1	7.2	8.7	112	14.5	133	92 - 124	12.5 - 16.3	C

SCARANO MARINE 1218 SW QST AVE FORT LAUDERDALE FL 33315 Phone: Email: Fax: - - -	Machine ID: ARIADNE Machine Year : NA	Component ID: RG6135G000922 Component Make: JOHN DEERE Component Model: 6135SFM75 Component Year: NA Component Type : DIESEL ENGINE	 MOTORCHECK LAB 2000 N FLORIDA MANGO RD UNIT 104 WEST PALM BEACH FL 33409 561-684-7799
	Component Description: EH#1		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
1310	2/6/2024	3996	100	15W40	UNKNOWN	UNKNOWN	No	2/6/2024	
Comments	WITH NO SIGNIFICANT LEAD OR TIN PRESENT, COPPER MOST LIKELY FROM SOURCE OTHER THAN WEAR, POSSIBLY OIL ADDITIVE. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION.								

Sample ID	Wear Metals(ppm)							Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additives (ppm)				
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1310	15	>2	>2	124	9	>2	X	6	>2	>2	X	16	X	X	X	X	X	X	X	X


Sample ID	Contaminants					Physical Properties							
	Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	Vindex	V40C Limit	V100C Limit	Visc Mode
1310	-	1.7	>0.1	-	>2.0	8.7	3.6	109	14.8	140	92 - 124	12.5 - 16.3	C

SCARANO MARINE 1218 SW QST AVE FORT LAUDERDALE FL 33315 Phone: Email: Fax: - - -	Machine ID: ARIADNE Machine Year : NA	Component ID: RG6135G000924 Component Make: JOHN DEERE Component Model: 6135SFM75 Component Year: NA Component Type : DIESEL ENGINE Component Location: STBD CENTER Sump Capacity: 5 Quarts	 MOTORCHECK LAB 2000 N FLORIDA MANGO RD UNIT 104 WEST PALM BEACH FL 33409 561-684-7799
	Component Description: #2		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
1311	2/6/2024	3972	100	15W40	UNKNOWN	UNKNOWN	No	2/6/2024	
Comments	HIGH SOOT OR WATER OR GLYCOL VALUE PREVENTS MEASUREMENTS OF SOME PHYSICAL PROPERTIES (NOT AVAILABLE = NA). CYLINDER, CRANK OR CAM SHAFT WEAR INDICATED. WITH NO SIGNIFICANT LEAD OR TIN PRESENT, COPPER MOST LIKELY FROM SOURCE OTHER THAN WEAR, POSSIBLY OIL ADDITIVE.								

Sample ID	Wear Metals(ppm)							Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additives (ppm)				
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1311	74	>	>	92	13	>	X	6	>	>	X	11	X	X	X	X	X	X	X	X


Sample ID	Contaminants				Physical Properties								
	Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	Vindex	V40C Limit	V100C Limit	Visc Mode
1311	NA	NA	-	NA	NA	NA	NA	NA	NA	>300	92 - 124	12.5 - 16.3	C

SCARANO MARINE 1218 SW QST AVE FORT LAUDERDALE FL 33315 Phone: Email: Fax: - - -	Machine ID: ARIADNE Machine Year : NA	Component ID: RG6135G001613 Component Make: JOHN DEERE Component Model: 61355FM75 Component Year: NA Component Type : DIESEL ENGINE Component Location: PORT CENTER Sump Capacity: 5 Quarts	 MOTORCHECK LAB 2000 N FLORIDA MANGO RD UNIT 104 WEST PALM BEACH FL 33409 561-684-7799
	Component Description: #3		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
1312	2/6/2024	4021	100	15W40	UNKNOWN	UNKNOWN	No	2/6/2024	
Comments	HIGH SOOT OR WATER OR GLYCOL VALUE PREVENTS MEASUREMENTS OF SOME PHYSICAL PROPERTIES (NOT AVAILABLE = NA). CYLINDER, CRANK OR CAM SHAFT WEAR INDICATED. WITH NO SIGNIFICANT LEAD OR TIN PRESENT, COPPER MOST LIKELY FROM SOURCE OTHER THAN WEAR, POSSIBLY OIL ADDITIVE.								

Sample ID	Wear Metals(ppm)							Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additives (ppm)				
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1312	105	5	2	104	12	4	X	7	<2	>2	X	14	X	X	X	X	X	X	X	X


Sample ID	Contaminants					Physical Properties							
	Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	Vindex	V40C Limit	V100C Limit	Visc Mode
1312	NA	NA	-	NA	NA	NA	NA	NA	NA	>300	92 - 124	12.5 - 16.3	C

SCARANO MARINE 1218 SW QST AVE FORT LAUDERDALE FL 33315 Phone: Email: Fax: - - -	Machine ID: ARIADNE Machine Year : NA	Component ID: RG6135G001637 Component Make: JOHN DEERE Component Model: 6506135SFM75 Component Year: NA Component Type : DIESEL ENGINE Component Location: STARBOARD MAIN Sump Capacity: 5 Quarts	 MOTORCHECK LAB 2000 N FLORIDA MANGO RD UNIT 104 WEST PALM BEACH FL 33409 561-684-7799
	Component Description:		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
1313	2/6/2024	3994	100	15W40	UNKNOWN	UNKNOWN	No	2/6/2024	
Comments	WITH NO SIGNIFICANT LEAD OR TIN PRESENT, COPPER MOST LIKELY FROM SOURCE OTHER THAN WEAR, POSSIBLY OIL ADDITIVE. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION.								

Sample ID	Wear Metals(ppm)							Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additives (ppm)				
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1313	36	>2	>2	98	4	>2	X	5	18	>2	X	15	X	X	X	X	X	X	X	X


Sample ID	Contaminants				Physical Properties								
	Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	Vindex	V40C Limit	V100C Limit	Visc Mode
1313	-	0.8	>0.1	-	2.5	8.8	>2.0	109	14.5	137	92 - 124	12.5 - 16.3	C

SCARANO MARINE 1218 SW QST AVE FORT LAUDERDALE FL 33315 Phone: Email: Fax: - - -	Machine ID: ARIADNE Machine Year : NA	Component ID: 2060862 Component Make: TWIN DISC GEAR Component Model: MG5114 Component Year: NA Component Type : GEARBOX Component Location: PORT Sump Capacity: 5 Quarts	 MOTORCHECK LAB 2000 N FLORIDA MANGO RD UNIT 104 WEST PALM BEACH FL 33409 561-684-7799
	Component Description: T#1		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
1314	2/6/2024	1000	100	SAE 30	UNKNOWN	UNKNOWN	No	2/6/2024	
Comments	GEAR UNIT WEAR RATES NORMAL. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. ANALYSIS INDICATES PROPER PERFORMANCE OF THE LUBRICANT AND UNIT.								

Sample ID	Wear Metals(ppm)							Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additives (ppm)				
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1314	15	>2	>2	77	2	>2	X	4	<2	>2	X	13	X	X	X	X	X	X	X	X


Sample ID	Contaminants				Physical Properties								
	Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	Vindex	V40C Limit	V100C Limit	Visc Mode
1314	X	X	>0.1	X	X	X	2.6	102	10.9	90	86 - 116	9.3 - 12.5	C

SCARANO MARINE 1218 SW QST AVE FORT LAUDERDALE FL 33315 Phone: Email: Fax: - - -	Machine ID: ARIADNE Machine Year : NA	Component ID: 2060863 Component Make: TWIN DISC GEAR Component Model: MH5114 Component Year: NA Component Type : GEARBOX Component Location: PORT CENTER Sump Capacity: 5 Quarts	 MOTORCHECK LAB 2000 N FLORIDA MANGO RD UNIT 104 WEST PALM BEACH FL 33409 561-684-7799
	Component Description: T#2		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
1315	2/6/2024	1000	100	SAE 30	UNKNOWN	UNKNOWN	No	2/6/2024	
Comments	GEAR UNIT WEAR RATES NORMAL. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. ANALYSIS INDICATES PROPER PERFORMANCE OF THE LUBRICANT AND UNIT.								

Sample ID	Wear Metals(ppm)							Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additives (ppm)				
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1315	17	>2	>2	71	3	>2	X	5	6	>2	X	17	X	X	X	X	X	X	X	X


Sample ID	Contaminants				Physical Properties								
	Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	Vindex	V40C Limit	V100C Limit	Visc Mode
1315	X	X	>0.1	X	X	X	2.8	102	10.9	90	86 - 116	9.3 - 12.5	C

SCARANO MARINE 1218 SW QST AVE FORT LAUDERDALE FL 33315 Phone: Email: Fax: - - -	Machine ID: ARIADNE Machine Year : NA	Component ID: 2062577 Component Make: TWIN DISC GEAR Component Model: MG-5114 Component Year: NA Component Type : GEARBOX Component Location: STBD CENTER Sump Capacity: 5 Quarts	 MOTORCHECK LAB 2000 N FLORIDA MANGO RD UNIT 104 WEST PALM BEACH FL 33409 561-684-7799
	Component Description: T#3		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
1316	2/6/2024	1000	100	SAE 30	UNKNOWN	UNKNOWN	No	2/6/2024	
Comments	SUSPECT CLUTCH/DISC PACK DAMAGE. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. DRAIN OIL FROM UNIT IF NOT ALREADY DONE.								

Sample ID	Wear Metals(ppm)							Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additives (ppm)				
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1316	31	>	>	244	4	>	X	5	3	>	X	22	X	X	X	X	X	X	X	X

Sample ID	Contaminants				Physical Properties								
	Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	Vindex	V40C Limit	V100C Limit	Visc Mode
1316	X	X	>0.1	X	X	X	2.6	102	10.9	90	86 - 116	9.3 - 12.5	C

SCARANO MARINE 1218 SW QST AVE FORT LAUDERDALE FL 33315 Phone: Email: Fax: - - -	Machine ID: ARIADNE Machine Year : NA	Component ID: 5LA004 Component Make: TWIN DISC GEAR Component Model: MG-5114 Component Year: NA Component Type : GEARBOX Component Location: STARBOARD Sump Capacity: 5 Quarts	 MOTORCHECK LAB 2000 N FLORIDA MANGO RD UNIT 104 WEST PALM BEACH FL 33409 561-684-7799
	Component Description: T#4		

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
1317	2/6/2024	1000	100	SAE 30	UNKNOWN	UNKNOWN	No	2/6/2024	
Comments	SUSPECT CLUTCH/DISC PACK DAMAGE. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. DRAIN OIL FROM UNIT IF NOT ALREADY DONE.								

Sample ID	Wear Metals(ppm)							Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additives (ppm)				
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1317	37	>	>	184	4	>	X	6	19	>	X	23	X	X	X	X	X	X	X	X

Sample ID	Contaminants				Physical Properties								
	Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	Vindex	V40C Limit	V100C Limit	Visc Mode
1317	X	X	>0.1	X	X	X	3.4	102	10.9	90	86 - 116	9.3 - 12.5	C