

KIWIMECH ENGINEERING Phone: Email: Fax: - - -	Machine ID: STAR DIAMOND Machine Year : NA	Component ID: PE4045N034969 Component Make: JOHN DEERE Component Model: 4045 AFM M85E Component Year: NA Component Type : DIESEL ENGINE Component Location: PORT GENERATOR Sump Capacity: 30 Quarts	 MOTOR CHECK ANALYSIS CLINIC 2000 N FLORIDA MANGO RD SUITE 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
61691	12/29/2025	3384	100	15W40	UNKNOWN	UNKNOWN	No	12/29/2025	
Comments	ALL ENGINE 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
61691	<2	2	>2	10	>2	>2	X	4	<2	>2	X	10	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
61691	-	0.2	>0.1	-	>2.0	9.1	>2.0	108	14.4	136	92 - 124	12.5 - 16.3	C

KIWIMECH ENGINEERING Phone: Email: Fax: - - -	Machine ID: STAR DIAMOND Machine Year : NA	Component ID: PE4045N034970 Component Make: JOHN DEERE Component Model: 4045 AFM 85E Component Year: NA Component Type : DIESEL ENGINE Component Location: STARBOARD GENERATOR Sump Capacity: 30 Quarts	MOTOR CHECK ANALYSIS CLINIC 2000 N FLORIDA MANGO RD SUITE 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
61692	12/29/2025	3334	100	15W40	UNKNOWN	UNKNOWN	No	12/29/2025	
Comments	ALL ENGINE 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
61692	>2	>2	>2	5	>2	>2	X	4	>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
61692	-	0.3	>0.1	-	>2.0	8.8	>2.0	109	14.4	135	92 - 124	12.5 - 16.3	C

KIWIMECH ENGINEERING Phone: Email: Fax: - - -	Machine ID: STAR DIAMOND Machine Year : NA	Component ID: 41N00053 Component Make: CATERPILLAR Component Model: 3512B Component Year: NA Component Type : DIESEL ENGINE Component Location: PORT MAIN Sump Capacity: 80 Quarts	 MOTOR CHECK ANALYSIS CLINIC 2000 N FLORIDA MANGO RD SUITE 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
61693	12/29/2025	9425	100	15W40	UNKNOWN	UNKNOWN	No	12/29/2025	
Comments	ALL ENGINE 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
61693	<2	<2	<2	<2	<2	<2	X	3	<2	<2	X	5	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
61693	D	<0.1	>0.1	-	4.5	8.4	>2.0	109	12.5	108	92 - 124	12.5 - 16.3	C

ABNORMAL

SEVERE

D = DETECTED

-- = NOT DETECTED

X = NOT TESTED / NOT APPLICABLE

NA = NOT AVAILABLE

C = CALCULATED

M = MEASURED

KIWIMECH ENGINEERING Phone: Email: Fax: - - -	Machine ID: STAR DIAMOND Machine Year : NA	Component ID: 41N00054 Component Make: CATERPILLAR Component Model: 3512-B Component Year: NA Component Type : DIESEL ENGINE Component Location: STARBOARD MAIN Sump Capacity: 80 Quarts	 MOTOR CHECK ANALYSIS CLINIC 2000 N FLORIDA MANGO RD SUITE 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
61694	12/29/2025	9443	100	15W40	UNKNOWN	UNKNOWN	No	12/29/2025	
Comments	ALL ENGINE 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
61694	<2	<2	<2	<2	<2	<2	X	3	<2	<2	X	6	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
61694	D	<0.1	>0.1	-	4.6	8.3	>2.0	109	12.7	109	92 - 124	12.5 - 16.3	C

ABNORMAL

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C = CALCULATED

M = MEASURED

KIWIMECH ENGINEERING Phone: Email: Fax: - - -	Machine ID: STAR DIAMOND Machine Year : NA	Component ID: 1532 Component Make: ZF Component Model: BW465 Component Year: NA Component Type : GEARBOX Component Location: PORT Sump Capacity: 5 Quarts	 MOTOR CHECK ANALYSIS CLINIC 2000 N FLORIDA MANGO RD SUITE 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
61695	12/29/2025	9425	100	SAE 30	UNKNOWN	UNKNOWN	No	12/29/2025	
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
61695	<2	2	>2	5	>2	>2	X	5	<2	5	X	4	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
61695	X	X	0.1	-	X	X	>2.0	101	10.9	91	86 - 116	9.3 - 12.5	C

ABNORMAL

SEVERE

D = DETECTED

-- = NOT DETECTED

X = NOT TESTED / NOT APPLICABLE

NA = NOT AVAILABLE

C = CALCULATED

M = MEASURED

KIWIMECH ENGINEERING Phone: Email: Fax: - - -	Machine ID: STAR DIAMOND Machine Year : NA	Component ID: 1533 Component Make: ZF Component Model: BW-465 Component Year: NA Component Type : GEARBOX Component Location: STARBOARD Sump Capacity: 5 Quarts	MOTOR CHECK ANALYSIS CLINIC 2000 N FLORIDA MANGO RD SUITE 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
61696	12/29/2025	9443	100	SAE 30	UNKNOWN	UNKNOWN	No	12/29/2025	
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
61696	<2	5	>2	13	>2	>2	X	4	<2	>2	X	66	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
61696	X	X	>0.1	-	X	X	>2.0	101	10.9	91	86 - 116	9.3 - 12.5	C