

OIL ANALYSIS REPORT

Area {UNASSIGNED} 215

Component **Diesel Engine**

DIESEL ENGINE OIL SAE 15W40 (46 QTS)

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



Sample Rating Trend

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0759981	WC0759968	
Sample Date		Client Info		15 May 2023	08 Nov 2022	
Machine Age	hrs	Client Info		12732	11661	
Oil Age	hrs	Client Info		11661	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	۷	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	20	31	
Chromium	ppm	ASTM D5185m	>5	2	2	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	6	
Lead	ppm	ASTM D5185m	>150	1	5	
Copper	ppm	ASTM D5185m	>90	<1	2	
Tin	ppm	ASTM D5185m	>5	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	5	3	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	67	69	
Mangapasa	nom	ACTM DE105m		-1	-1	

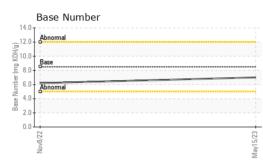
Molybdenum	ppm	ASTM D5185m	100	67	69	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	450	941	951	
Calcium	ppm	ASTM D5185m	3000	1290	1297	
Phosphorus	ppm	ASTM D5185m	1150	1089	1021	
Zinc	ppm	ASTM D5185m	1350	1317	1357	
Sulfur	ppm	ASTM D5185m	4250	3352	3356	
CONTAMINANTS	S	method	limit/base	current	historv1	history2

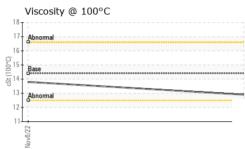
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Silicon	ppm	ASTM D5185m	>35	5	6	
Sodium	ppm	ASTM D5185m	>158	8	5	
Potassium	ppm	ASTM D5185m	>20	9	17	

INFRA-RED		method			history1	history2
Soot %	%	*ASTM D7844	>7.5	0.6	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	11.2	11.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	24.6	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	20.9	
Base Number (BN)	ma KOH/a	ASTM D2896	85	7.0	6.2	



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	12.9	13.8	
GRAPHS						
Ferrous Alloys						
0 -						

