

OIL ANALYSIS REPORT

Sample Rating Trend

Area (AU687W) Supermarket - Tractor **FREIGHTLINER 107A1848**

Diesel Engine

Fluid PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

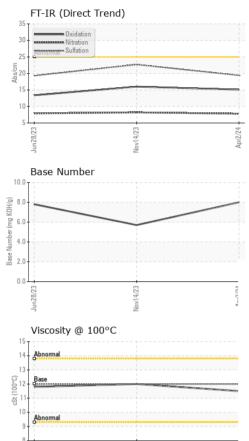
Sample Date Client Info 02 Apr 2024 14 Nov 2023 28 Jun 2023 Machine Age mis Client Info 225058 209464 195622 Oil Age mis Client Info 15594 13842 12370 Oil Changed Client Info Changed Not Changed Not Changed Not Changed Sample Status VIC Method 55 <1.0 <1.0 <1.0 Water VIC Method >5.2 <1.0 <1.0 <1.0 Water WIC Method >0.2 NEG NEG NEG Wear WIC Method >0.2 NEG NEG NEG Vicon ppm ASTM 051555 >2 0 0 <1 for ppm ASTM 051555 >2 0 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 1 <1	AAL)		Jur	12023	Nov2023 Apr20	24	
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Machine Age mis Client Info 225058 209464 195622 Oil Age mis Client Info 15594 13842 12370 Oil Changed Client Info Changed NoRMAL NORMAL NORMAL Sample Status Imit/base current NoRMAL NORMAL NORMAL CONTAMINATION method >0.2 NEG NEG NEG Fuel WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG Ottomium ppm ASTM 05185m >5 <1 1 <1 Nickel ppm ASTM 05185m >3 0 0 0 Silver ppm ASTM 05185m >30 6 8 4 Lead ppm ASTM 05185m >30 0 0 0 Glycol ppm ASTM 05185m >5 <1 <1 1 Nickel	Sample Number		Client Info		PCA0116954	PCA0110998	PCA0099863
Machine Age mis Client Info Image 225058 209464 195622 Oil Aga mis Client Info 15594 13842 12370 Sample Status o imit/base RoRMAL NORMAL NORMA	Sample Date		Client Info		02 Apr 2024	14 Nov 2023	28 Jun 2023
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Phosphorus ppm ASTM D5185m 995 1137 920 968 Zinc ppm ASTM D5185m 1180 1325 1195 1178 Sulfur ppm ASTM D5185m 2600 3794 2941 3486 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 6 5 Sodium ppm ASTM D5185m >20 4 6 5 Sodium ppm ASTM D5185m >20 2 3 1 Potassium ppm ASTM D5185m >20 2 10 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.6 0.3 Nitration Abs/cm *ASTM D7624 >20 7.8 8.2 7.9 Sulfation Abs/.1mm *ASTM D7634 <t< th=""><th>-</th><th>ppm</th><th></th><th>950</th><th>904</th><th>290</th><th>309</th></t<>	-	ppm		950	904	290	309
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CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20465SodiumppmASTM D5185m231PotassiumppmASTM D5185m>202106INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.50.60.3NitrationAbs/cm*ASTM D7624>207.88.27.9SulfationAbs/1mm*ASTM D7415>3019.422.719.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2515.116.013.4		ppm	ASTM D5185m	1180	1325	1195	1178
Silicon ppm ASTM D5185m >20 4 6 5 Sodium ppm ASTM D5185m >20 2 3 1 Potassium ppm ASTM D5185m >20 2 10 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.6 0.3 Nitration Abs/cm *ASTM D7624 >20 7.8 8.2 7.9 Sulfation Abs/.1mm *ASTM D7415 >30 19.4 22.7 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 16.0 13.4	Sulfur	ppm	ASTM D5185m	2600	3794	2941	3486
Sodium ppm ASTM D5185m 2 3 1 Potassium ppm ASTM D5185m<>20 2 10 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844<>3 0.5 0.6 0.3 Nitration Abs/cm *ASTM D7624<>20 7.8 8.2 7.9 Sulfation Abs/.1mm *ASTM D7415<>30 19.4 22.7 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414<>25 15.1 16.0 13.4	CONTAMINAN	ITS	method	limit/base	current	history1	history2
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INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.6 0.3 Nitration Abs/cm *ASTM D7624 >20 7.8 8.2 7.9 Sulfation Abs/.1mm *ASTM D7415 >30 19.4 22.7 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 16.0 13.4	Sodium	ppm	ASTM D5185m		2	3	1
Soot % % *ASTM D7844 >3 0.5 0.6 0.3 Nitration Abs/cm *ASTM D7624 >20 7.8 8.2 7.9 Sulfation Abs/.1mm *ASTM D7415 >30 19.4 22.7 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 16.0 13.4	Potassium	ppm	ASTM D5185m	>20	2	10	6
Nitration Abs/cm *ASTM D7624 >20 7.8 8.2 7.9 Sulfation Abs/.1mm *ASTM D7415 >30 19.4 22.7 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 16.0 13.4	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 19.4 22.7 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 16.0 13.4	Soot %	%	*ASTM D7844	>3	0.5	0.6	0.3
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 16.0 13.4	Nitration	Abs/cm	*ASTM D7624	>20	7.8	8.2	7.9
Oxidation Abs/.1mm *ASTM D7414 >25 15.1 16.0 13.4	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	22.7	19.3
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	16.0	13.4
	Base Number (BN)	mg KOH/g	ASTM D2896		8.0	5.7	7.8

NORMAL

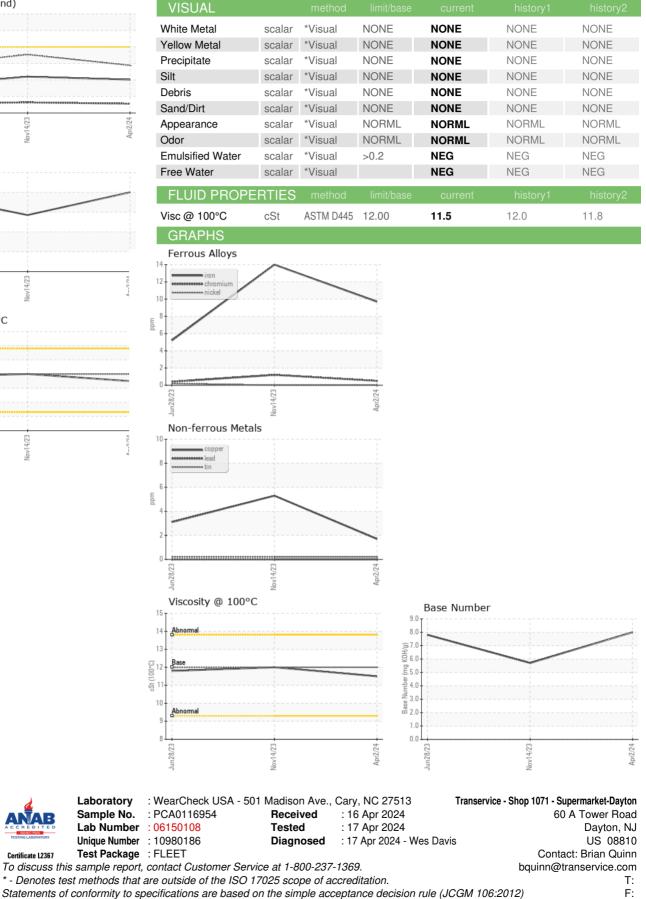


Jun28/23

OIL ANALYSIS REPORT



Nov14/23



Certificate 12367