

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 641208

Component Diesel Engine Fluid

PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

🔺 Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

Contamination

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

Fluid Condition

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

(15)			Nov2023	Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0120633	PCA0110484	
Sample Date		Client Info		15 Mar 2024	10 Nov 2023	
Machine Age	mls	Client Info		0	14226	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	66	39	
Chromium	ppm	ASTM D5185m	>20	4	2	
Nickel	ppm	ASTM D5185m	>4	1	1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	<1	1	
Aluminum	ppm	ASTM D5185m	>20	44	34	
Lead	ppm	ASTM D5185m	>40	4	0	
Copper	ppm	ASTM D5185m	>330	416	▲ 386	
Tin	ppm	ASTM D5185m	>15	6	5	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	32	39	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	44	42	
Manganese	ppm	ASTM D5185m	0	5	4	
Magnesium	ppm	ASTM D5185m	950	562	557	
Calcium	ppm	ASTM D5185m	1050	1759	1648	
Phosphorus	ppm	ASTM D5185m	995	755	772	
Zinc	ppm	ASTM D5185m	1180	901	964	
Sulfur	ppm	ASTM D5185m	2600	2253	2272	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	7	
Sodium	ppm	ASTM D5185m		6	5	
Potassium	ppm	ASTM D5185m	>20	134	112	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	11.0	8.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	22.7	
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.9	21.4	
Base Number (BN)	mg KOH/g	ASTM D2896				



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4ps/cm

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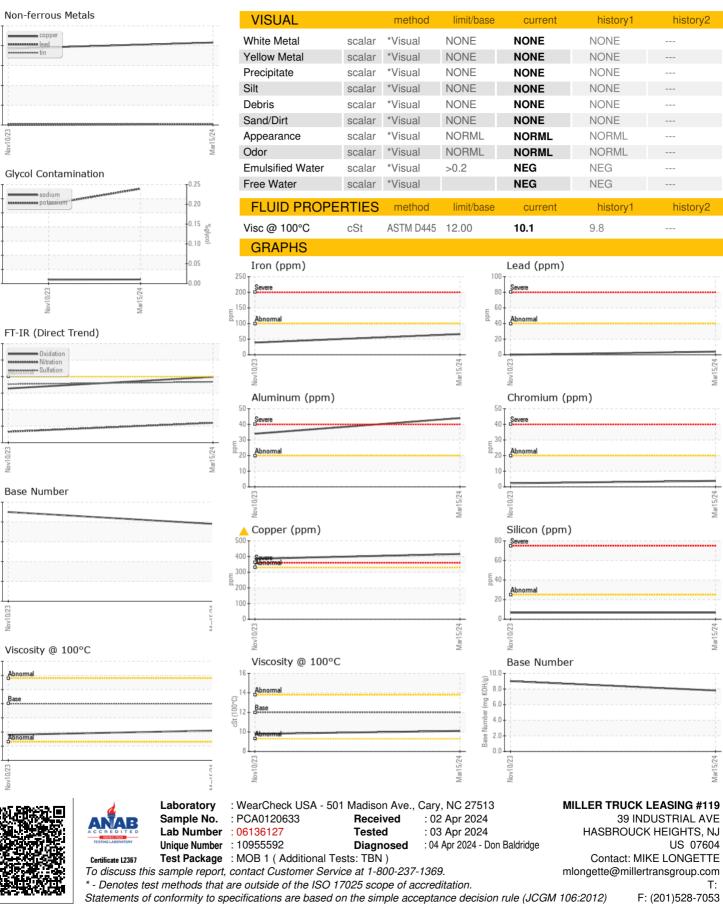
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cSt (100°C)

(mg KOH/g)

Base

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Contact/Location: MIKE LONGETTE - MILRUT