

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **542179** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 10W30 (--- 0**

DIAGNOSIS

Recommendation

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

Wear

All 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.

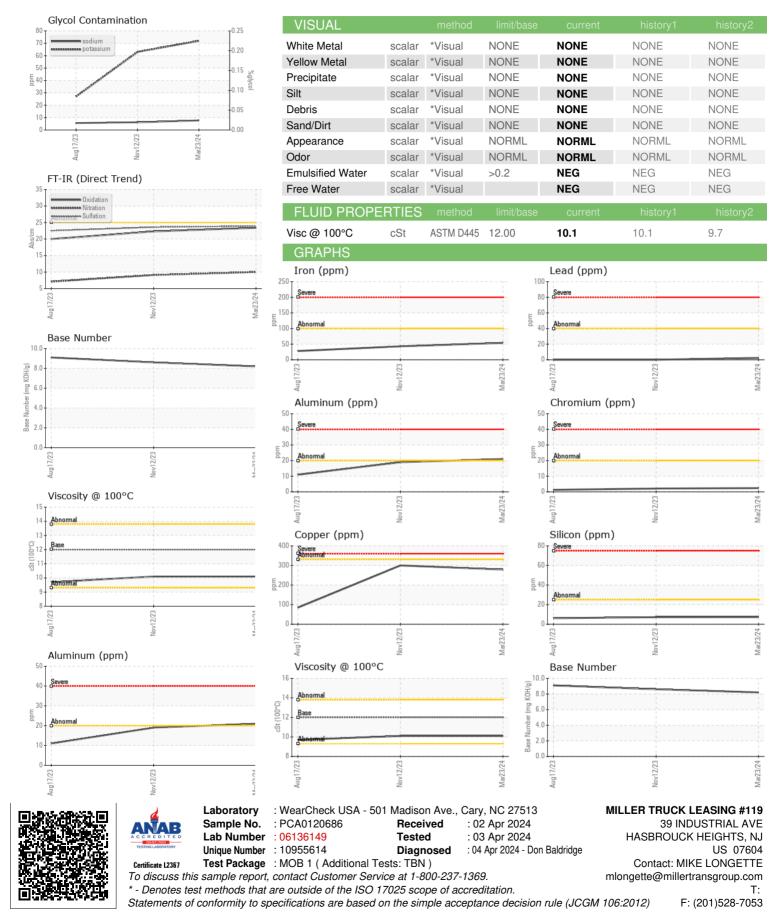
Fluid Condition

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.

SAMPLE INFOR	MATION					
<u> </u>		method				history2
Sample Number		Client Info		PCA0120686	PCA0115186	PCA0104303
Sample Date		Client Info		23 Mar 2024	12 Nov 2023	17 Aug 2023
Machine Age	mls	Client Info		0	0	7528
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	54	43	28
Chromium	ppm	ASTM D5185m	>20	2	2	1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	21	19	11
Lead	ppm	ASTM D5185m	>40	2	0	0
Copper	ppm	ASTM D5185m	>330	279	300	85
Tin	ppm	ASTM D5185m	>15	4	4	4
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	34	40	56
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	43	42	40
Manganese	ppm	ASTM D5185m	0	3	3	2
Magnesium	ppm	ASTM D5185m	950	524	520	521
Calcium	ppm	ASTM D5185m	1050	1798	1670	1706
Phosphorus	ppm	ASTM D5185m	995	747	785	766
Zinc	ppm	ASTM D5185m	1180	882	913	965
Sulfur	ppm	ASTM D5185m	2600	2557	2145	2969
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	7	6
Sodium	ppm	ASTM D5185m		8	6	6
Potassium	ppm	ASTM D5185m	>20	72	63	27
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.8	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.0	9.1	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	23.6	22.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
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Oxidation	Abs/.1mm	*ASTM D7414	>25	23.4	22.3	20.0



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Contact/Location: MIKE LONGETTE - MILRUT