

OIL ANALYSIS REPORT

Area (TX302712) Machine Id 10819 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 GAL)

DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

🔺 Wear

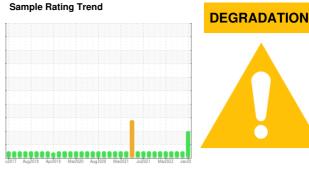
The aluminum level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN level is low. The condition of the oil is acceptable for the time in service.

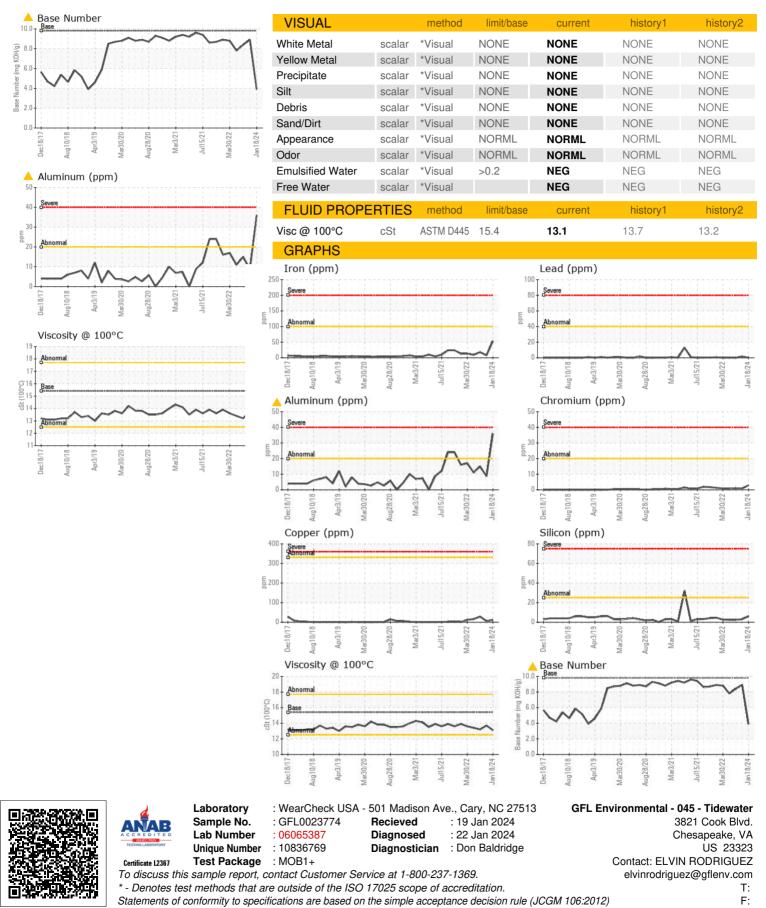


SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0023774	GFL0052232	GFL0052181
Sample Date		Client Info		18 Jan 2024	16 Jan 2023	08 Nov 2022
Machine Age	hrs	Client Info		11771	11771	11771
Oil Age	hrs	Client Info		11771	14582	14260
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATIC	N	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 METALS		method	limit/base	current	history1	history2
Iron p	ppm	ASTM D5185m	>100	53	8	18
Chromium p	ppm	ASTM D5185m	>20	3	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium p	ppm	ASTM D5185m		0	0	0
Silver p	ppm	ASTM D5185m	>3	0	0	0
Aluminum p	ppm	ASTM D5185m	>20	<u> </u>	9	15
Lead p	ppm	ASTM D5185m	>40	0	1	0
Copper p	ppm	ASTM D5185m	>330	11	6	29
Tin p	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium p	ppm	ASTM D5185m		<1	0	0
Cadmium F	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron p	ppm	ASTM D5185m	0	1	<1	8
Barium p	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	69	51	60
Manganese p	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium p	ppm	ASTM D5185m	1010	1110	897	878
Calcium p	ppm	ASTM D5185m	1070	1171	1058	1083
Phosphorus p	ppm	ASTM D5185m	1150	1140	921	947
Zinc	ppm	ASTM D5185m	1270	1431	1182	1170
Sulfur p	ppm	ASTM D5185m	2060	2972	3011	3235
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon F	ppm	ASTM D5185m	>25	6	3	2
Sodium	ppm	ASTM D5185m		3	0	0
Potassium p	ppm	ASTM D5185m	>20	17	5	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.3	0.6
Nitration /	Abs/cm	*ASTM D7624	>20	12.1	6.8	9.6
Sulfation A	Abs/.1mm	*ASTM D7415	>30	25.7	18.1	21.7
FLUID DEGRADA		method	limit/base	current	history1	history2

FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.1	13.6	17.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<mark>/</mark> 3.9	8.9	8.4



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