

OIL ANALYSIS REPORT

Area (89644X) Walgreens - Tractor [Walgreens - Tractor] 136A69064

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)

GAL)		May202	12 May2023	Dec2023 Ja	n2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0116414	PCA0111767	PCA0097084
Sample Date		Client Info		29 Jan 2024	15 Dec 2023	23 May 2023
Machine Age	mls	Client Info		713408	706714	616190
Oil Age	mls	Client Info		97212	100524	59849
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINA	TION	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 META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	73	53	45
Chromium	ppm	ASTM D5185m	>5	6	3	3
Nickel	ppm	ASTM D5185m	>2	1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	89	24	22
Lead	ppm	ASTM D5185m	>30	3	0	<1
Copper	ppm	ASTM D5185m	>150	<u> </u>	4	5
Tin	ppm	ASTM D5185m	>5	<mark>/</mark> 5	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	21	5	3
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	50	43	57	65
Manganese	ppm	ASTM D5185m	0	5	<1	1
Magnesium	ppm	ASTM D5185m	950	539	881	966
Calcium	ppm	ASTM D5185m	1050	1583	1078	1158
Phosphorus	ppm	ASTM D5185m	995	705	1013	1051
Zinc	ppm	ASTM D5185m	1180	836	1178	1323
Sulfur	ppm	ASTM D5185m	2600	1746	2566	3212
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	10	8	8
Sodium	ppm	ASTM D5185m		7	2	3
Potassium	ppm	ASTM D5185m	>20	229	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	1.8	1.6
Nitration	Abs/cm	*ASTM D7624	>20	12.1	11.1	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	29.4	25.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.9	26.1	20.5
Base Number (BN)	ma KOH/a	ASTM D2896		5.3	5.7	5.5

Sample Rating Trend

WEAR

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

🔺 Wear

Bearing wear is indicated.

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. There is no indication of any contamination in the oil.

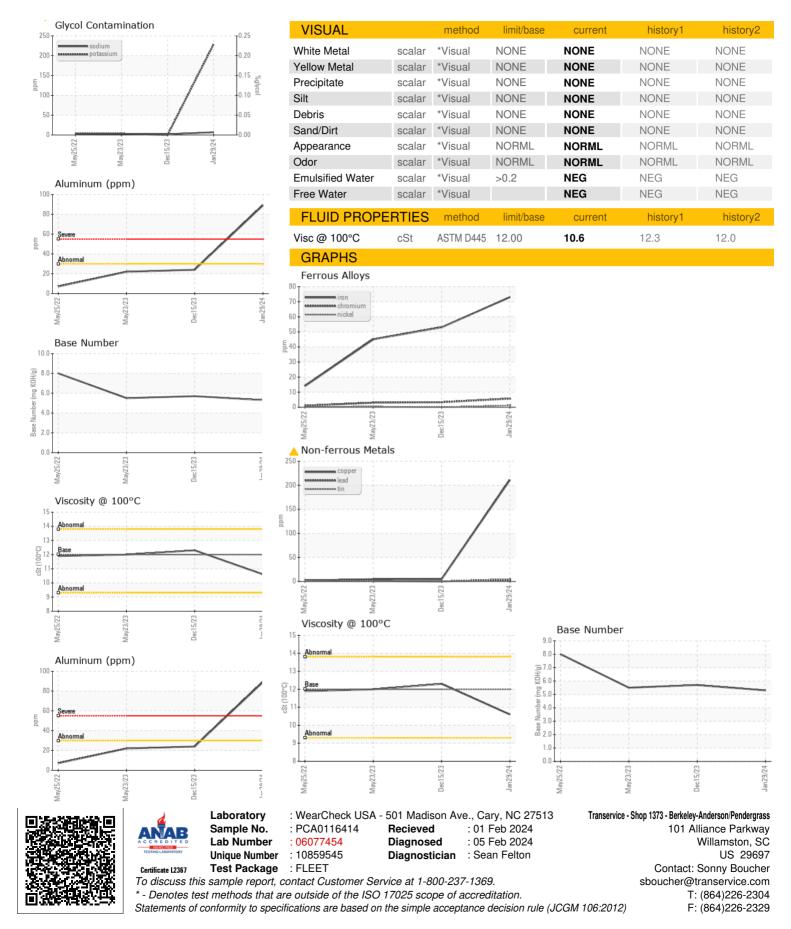
Fluid Condition

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



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Page 2 of 2