WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ABNORMAL



Machine Id
529006
Component
Diesel Engine

PETRO CANADA DURON SHP	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0102860	GFL0055376	GFL007851
	Sample Date		Client Info		01 Apr 2024	06 Oct 2023	28 Apr 202
	Machine Age	hrs	Client Info		0	0	4297
	Oil Age	hrs	Client Info		5120	4754	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	las a		AOTM DE40E()	400		40	
WEAR	Iron	ppm	ASTM D5185(m)		13	12	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		0	0	0
	Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
	Titanium	ppm	ASTM D5185(m)		0	0	<1
	Silver	ppm	ASTM D5185(m)		0	<1	0
	Aluminum	ppm	ASTM D5185(m)		2	2	2
	Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
	Copper	ppm	ASTM D5185(m)		3	2	4
	Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185(m)		0 	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	6	6	4
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	3	2	4
	Fuel	%	ASTM D7593*	>3.0	0.7	0.5	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>4	0.2	0.2	0.2
	Nitration	Abs/cm	ASTM D7624*	>20	8.5	8.8	7.9
	Sulfation	Abs/.1mm	ASTM D7415*	>30	22.9	22.8	19.7
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2	3	3
Viscosity of sample indicates oil is within SAE 30 range, advise	Boron	ppm	ASTM D5185(m)	0	29	20	2
investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)		0	<1	0
	Molybdenum	ppm	ASTM D5185(m)		42	45	61
	Manganese	ppm	ASTM D5185(m)		0	0	<1
	Magnesium	ppm	ASTM D5185(m)		522	570	987
	Calcium	ppm	ASTM D5185(m)	1070	1726	1705	1145
	Phosphorus	ppm	ASTM D5185(m)		726	774	1092
	Zinc	ppm	ASTM D5185(m)	1270	875	948	1203
			(/				2560
	Sulfur	ppm	ASTM D5185(m)	2060	2016	2137	2300

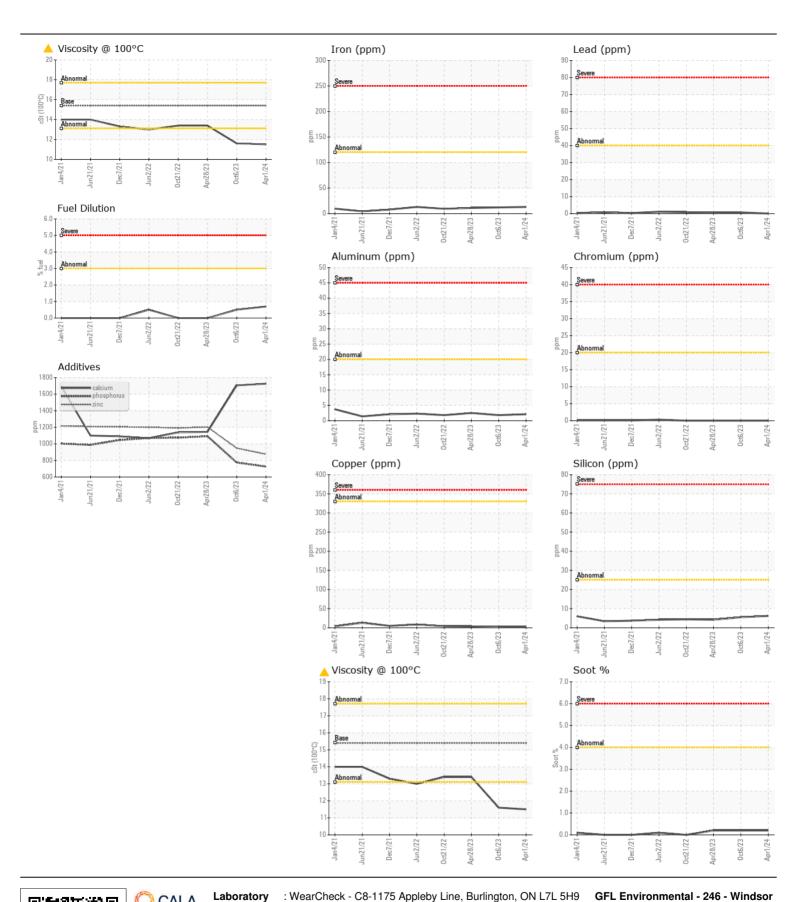
Visc @ 100°C cSt

ASTM D7279(m) 15.4

11.5

11.6

13.4





CALA ISO 17025:2017 Accredited

Laboratory Sample No.

Lab Number : 02625967 Unique Number : 5759099

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0102860

Validity of results and interpretation are based on the sample and information as supplied.

Received **Tested** Diagnosed Test Package: MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

: 03 Apr 2024

: 03 Apr 2024 - Kevin Marson

: 02 Apr 2024

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

2700 Deziel Dr Windsor, ON CA N8W 5H8 Contact: Dave Varga dvarga@gflenv.com T: (519)944-8009

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