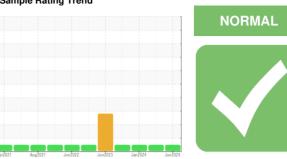


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 501138 Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Elevated aluminum (Al) 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

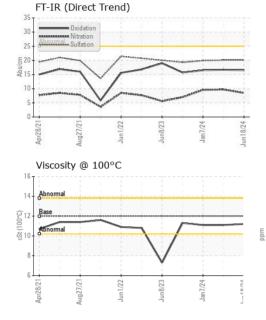
Fluid Condition

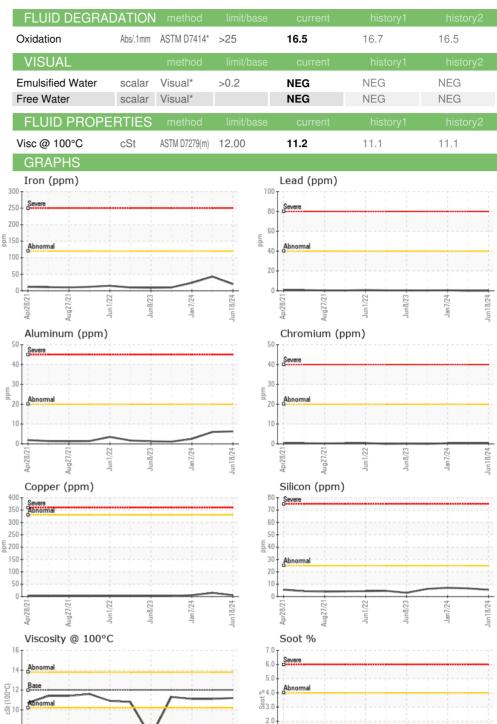
The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118972	GFL0112537	GFL0102643
Sample Date		Client Info		18 Jun 2024	01 Apr 2024	07 Jan 2024
Machine Age	hrs	Client Info		0	14532	14002
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	20	43	24
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	1	2	1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	6	6	2
Lead	ppm	ASTM D5185(m)	>40	<1	0	<1
Copper	ppm	ASTM D5185(m)	>330	6	15	6
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	2	2	2
Barium	ppm	ASTM D5185(m)	0	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	60	61	59
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	949	980	968
Calcium	ppm	ASTM D5185(m)	1050	1049	1062	1065
Phosphorus	ppm	ASTM D5185(m)	995	1003	994	994
Zinc	ppm	ASTM D5185(m)	1180	1179	1195	1180
Sulfur	ppm	ASTM D5185(m)	2600	2432	2455	2595
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	7	7
Sodium	ppm	ASTM D5185(m)		8	32	10
Potassium	ppm	ASTM D5185(m)	>20	7	15	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.1	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	8.5	9.7	9.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	20.1	19.9



OIL ANALYSIS REPORT







CALA ISO 17025:2017 Accredited Laboratory

Sample No. Test Package : MOB 1

Laboratory Lab Number : 02642758 Unique Number : 5800297

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW : GFL0118972 : 19 Jun 2024 Received

Tested Diagnosed

Jan 7/24 -

: 19 Jun 2024 - Wes Davis

: 19 Jun 2024

1.0 0.0

> 8409 -15th Street NW Edmonton, AB **CA T6P 0B8** Contact: Tim Greig tgreig@gflenv.com T: (780)231-0521

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