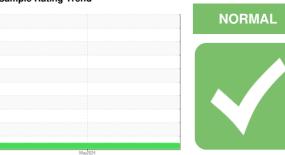


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

WESTERN STAR 420077

Diesel Engine

PETRO CANADA DURON HP 15W40 (--- GA

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

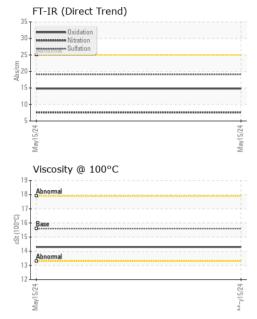
The condition of the oil is acceptable for the time in service.

AL)				May/2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122273		
Sample Date		Client Info		15 May 2024		
Machine Age	hrs	Client Info		9932		
Oil Age	hrs	Client Info		663		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	29		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	9		
Lead	ppm	ASTM D5185(m)	>40	0		
Copper	ppm	ASTM D5185(m)	>330	4		
Tin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	3		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	60	60		
Manganese	ppm	ASTM D5185(m)	0	<1		
Magnesium	ppm	ASTM D5185(m)	1010	979		
Calcium	ppm	ASTM D5185(m)	1070	1058		
Phosphorus	ppm	ASTM D5185(m)	1150	961		
Zinc	ppm	ASTM D5185(m)	1270	1163		
Sulfur	ppm	ASTM D5185(m)	2060	2442		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4		
Sodium	ppm	ASTM D5185(m)	720	2		
Potassium	ppm	ASTM D5185(m)	>20	10		
INFRA-RED	Is Is a see	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0.2		
Nitration	% Abs/cm	ASTM D7844*	>3	7.6		
Sulfation			>20			
Julialion	Abs/.1mm	ASTM D7415*	>30	19.1		

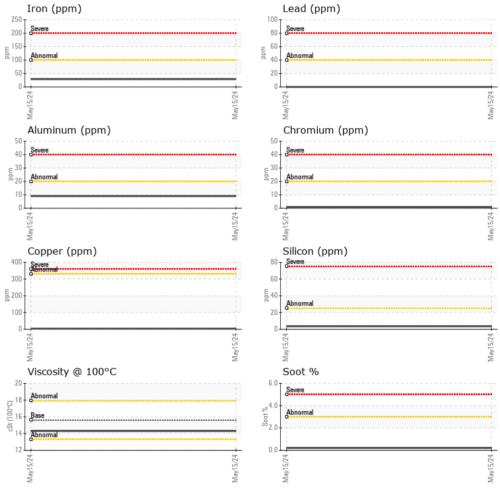
Contact/Location: Vicki Metcalfe - GFL987



OIL ANALYSIS REPORT









CALA ISO 17025:2017 Accredited Laboratory

Report Id: GFL987 [WCAMIS] 02637372 (Generated: 05/24/2024 13:42:32) Rev: 1

Sample No.

Laboratory

Lab Number : 02637372 Unique Number : 5786534

: GFL0122273

Received **Tested** Diagnosed

: 24 May 2024 : 24 May 2024

: 24 May 2024 - Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 987 - Charlottetown 7 Superior Crescent Charlottetown, PE CA C1A 7N5 Contact: Vicki Metcalfe

Test Package : MOB 1 (Additional Tests: Visual) 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.

vmetcalfe@gflenv.com T: (782)377-5918 F: (506)453-9490

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

Contact/Location: Vicki Metcalfe - GFL987