

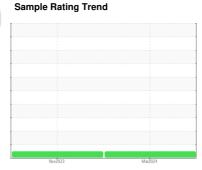
OIL ANALYSIS REPORT



MACK 427116

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

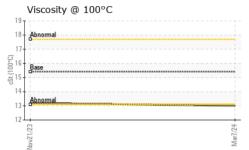
Fluid Condition

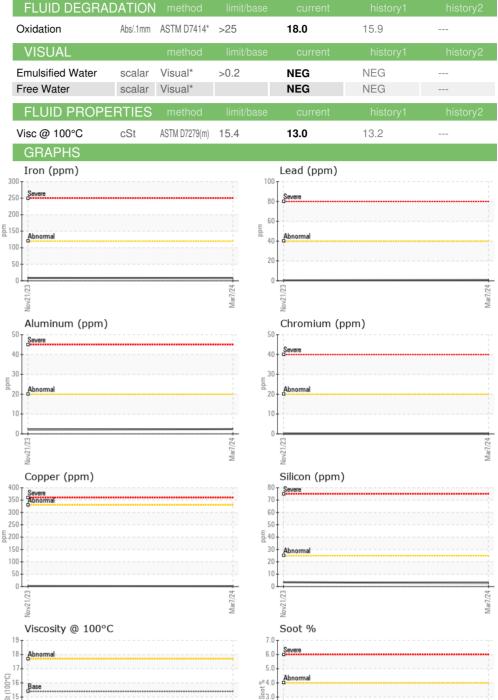
The condition of the oil is acceptable for the time in service.

N SHP 15W40 (GAL)		Nov2023	Mar2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115517	GFL0096338	
Sample Date		Client Info		07 Mar 2024	21 Nov 2023	
Machine Age	hrs	Client Info		13033	12489	
Oil Age	hrs	Client Info		600	600	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	8	9	
Chromium	ppm	ASTM D5185(m)	>20	0	0	
Nickel	ppm	ASTM D5185(m)	>5	<1	0	
Titanium	ppm	ASTM D5185(m)	>2	0	0	
Silver	ppm	ASTM D5185(m)	>2	0	0	
Aluminum	ppm	ASTM D5185(m)	>20	2	2	
Lead	ppm	ASTM D5185(m)	>40	<1	<1	
Copper	ppm	ASTM D5185(m)	>330	1	2	
Tin	ppm	ASTM D5185(m)	>15	<1	0	
Antimony	ppm	ASTM D5185(m)		0	<1	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	5	5	
Barium	ppm	ASTM D5185(m)	0	0	<1	
Molybdenum	ppm	ASTM D5185(m)	60	61	57	
Manganese	ppm	ASTM D5185(m)	0	0	0	
Magnesium	ppm	ASTM D5185(m)	1010	953	904	
Calcium	ppm	ASTM D5185(m)	1070	1073	1135	
Phosphorus	ppm	ASTM D5185(m)	1150	992	965	
Zinc	ppm	ASTM D5185(m)	1270	1180	1165	
Sulfur	ppm	ASTM D5185(m)	2060	2655	2488	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	4	
Sodium	ppm	ASTM D5185(m)		2	6	
Potassium	ppm	ASTM D5185(m)	>20	2	<1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0	0.1	
Nitration	Abs/cm	ASTM D7624*	>20	9.7	8.6	
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.5	19.4	



OIL ANALYSIS REPORT





2.0 1.0

0.0



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02621702 Unique Number : 5746821 Test Package : MOB 1

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: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0115517

Received : 13 Mar 2024 **Tested** Diagnosed

: 13 Mar 2024 : 13 Mar 2024 - Wes Davis

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.

GFL Environmental - 527

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