

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 213032 Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- L

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a components first oil change.

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 oil.

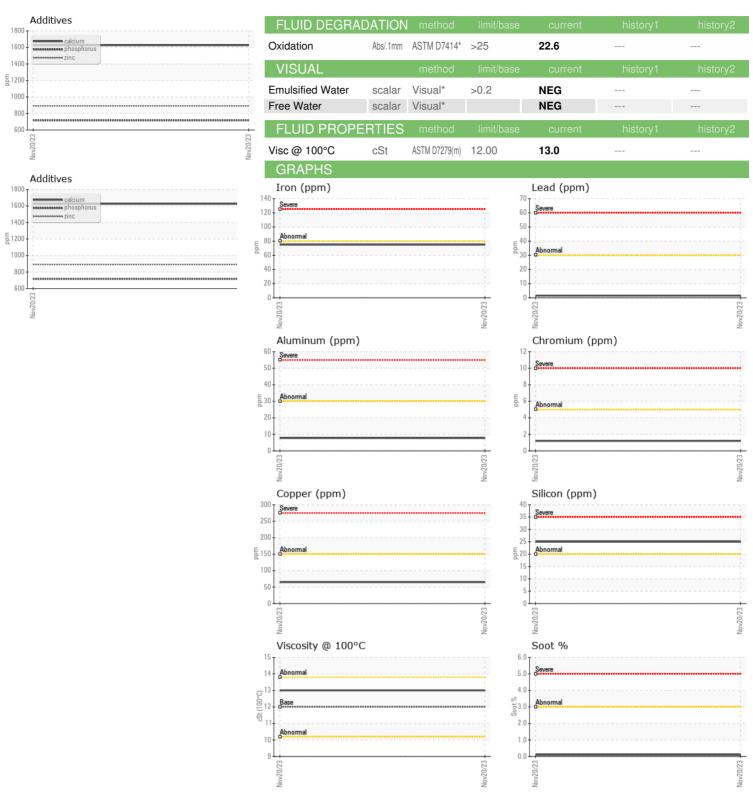
Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.

_TR)				Nov2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101718		
Sample Date		Client Info		20 Nov 2023		
Machine Age	hrs	Client Info		392		
Oil Age	hrs	Client Info		392		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	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)	>80	75		
Chromium	ppm	ASTM D5185(m)	>5	1		
Nickel	ppm	ASTM D5185(m)	>2	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>30	8		
Lead	ppm	ASTM D5185(m)	>30	2		
Copper	ppm	ASTM D5185(m)	>150	65		
Tin	ppm	ASTM D5185(m)	>5	<1		
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)	2	52		
Barium	ppm	ASTM D5185(m)	0	8		
Molybdenum	ppm	ASTM D5185(m)	50	44		
Manganese	ppm	ASTM D5185(m)	0	5		
Magnesium	ppm	ASTM D5185(m)	950	560		
Calcium	ppm	ASTM D5185(m)	1050	1626		
Phosphorus	ppm	ASTM D5185(m)	995	717		
Zinc	ppm	ASTM D5185(m)	1180	892		
Sulfur	ppm	ASTM D5185(m)	2600	1933		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	25		
Sodium	ppm	ASTM D5185(m)		6		
Potassium	ppm	ASTM D5185(m)	>20	8		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1		
Nitration	Abs/cm	ASTM D7624*	>20	8.5		
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.5		



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

Test Package : MOB 1

: 02598764 : 5683844

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW Received : GFL0101718

: 24 Nov 2023 Diagnosed Diagnostician

: 24 Nov 2023 : Kevin Marson 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.