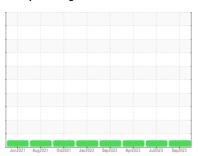


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 411005 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL

DIAGNOSIS Recommendation

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.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

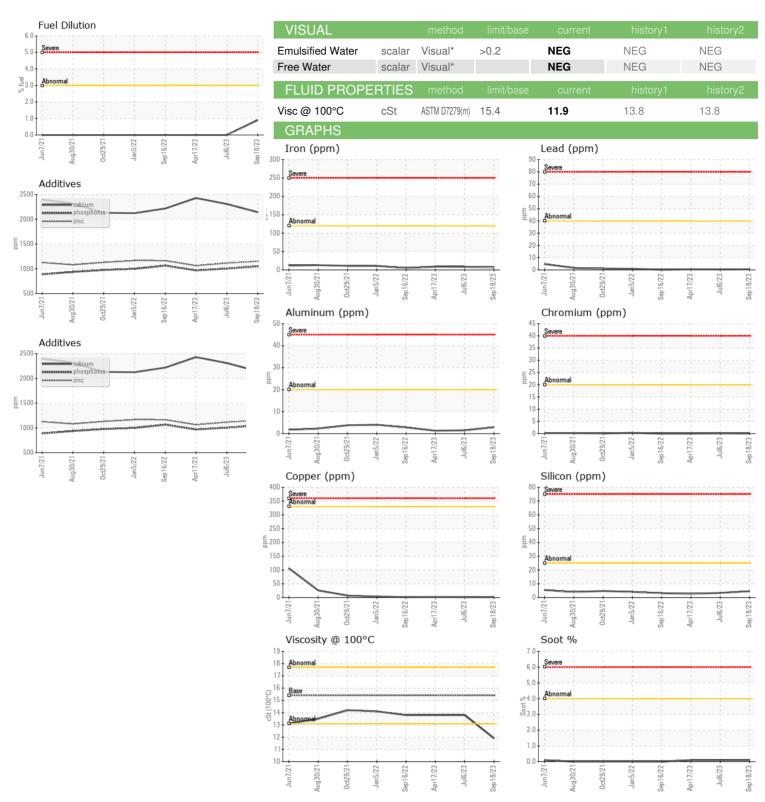
Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

N SHP 15W40 (GAL)	Jun2021 J	Aug2021 Oct2021 Jan20	22 Sep2022 Apr2023 Jul2023	Sep2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094453	GFL0086768	GFL0042867
Sample Date		Client Info		18 Sep 2023	06 Jul 2023	17 Apr 2023
Machine Age	hrs	Client Info		24752	24752	6785
Oil Age	hrs	Client Info		24752	24752	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	7	8	9
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	3	2	1
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	1	2	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
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)	0	24	13	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	75	39	8
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	56	22	16
Calcium	ppm	ASTM D5185(m)	1070	2142	2307	2428
Phosphorus	ppm	ASTM D5185(m)	1150	1049	1004	967
Zinc	ppm	ASTM D5185(m)	1270	1151	1115	1063
Sulfur	ppm	ASTM D5185(m)	2060	3035	3063	3108
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	3	3
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	1	2	2
Fuel	%	ASTM D7593*	>3.0	0.9	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.1	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.5	9.0	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	20.8	21.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.6	14.0	12.3



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 222 - Sandhill : GFL0094453 : 02583521

: 5644586

Received : 19 Sep 2023 Diagnosed : 20 Sep 2023 Diagnostician Wes Davis **Test Package**: MOB 1 (Additional Tests: FuelDilution, PercentFuel)

SANDHILL DISPOSAL & RECYCLING DIVIS, 19 COMMERCE ROAD ORANGEVILLE, ON

CA L9W 3X5 Contact: GLENN COOK gcook@gflenv.com T: (519)940-4167 F:

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.