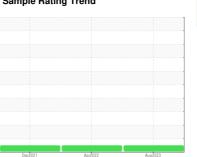


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id **3373M** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (8 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

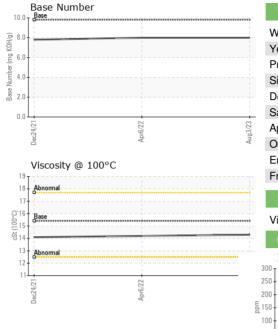
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

514 5111 1544 - 0 (0	J GAL)	Dei	2021	Apr2022 Aug20	23	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0041810	GFL0041832	GFL0041835
Sample Date		Client Info		03 Aug 2023	06 Apr 2022	24 Dec 2021
Machine Age	hrs	Client Info		600	600	0
Oil Age	hrs	Client Info		600	0	250
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	3	24	27
Chromium	ppm	ASTM D5185m	>20	0	<1	2
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	1	2	8
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	0	4	2
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	27	59	56
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	444	954	892
Calcium	ppm	ASTM D5185m	1070	1677	1162	1034
Phosphorus	ppm	ASTM D5185m	1150	985	978	893
Zinc	ppm	ASTM D5185m	1270	1149	1212	1143
Sulfur	ppm	ASTM D5185m	2060	3316	2223	2313
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	15
Sodium	ppm	ASTM D5185m		<1	4	4
Potassium	ppm	ASTM D5185m	>20	2	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	1.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	6.7	10.8	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	23.5	20.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.4	17.6	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8	8	7.8
, ,	0					



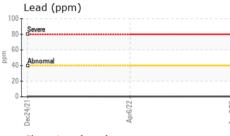
OIL ANALYSIS REPORT

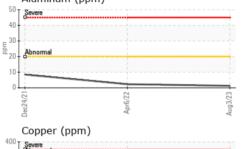


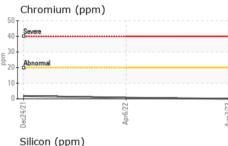
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method				history2

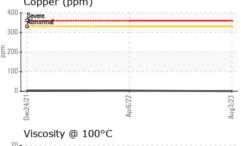
TEGID THOTELITIES					
Visc @ 100°C cSt	ASTM D445	15.4	14.3	14.2	14.1

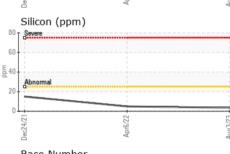
Iron (ppm)	
Severe		
200		
Abnormal		
100		
50		
0 12		23
Dec24/2	Apr6/22	Aug3/23
		A
Aluminum	(ppm)	

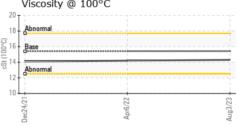


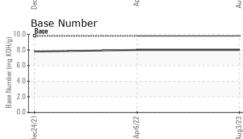














Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : MOB1+

: GFL0041810 : 06060767 : 10832149

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed

: 16 Jan 2024 : 17 Jan 2024 Diagnostician : Jonathan Hester GFL Environmental - 461 - Smith Hauling 3239 W. M 28

Brimley, MI US 49715 Contact: Jim Smith jim.smith@gflenv.com T: (906)635-3380

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)