

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **2514** Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 QTS)

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 oil.

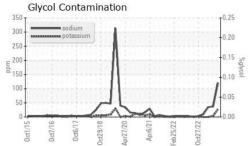
Fluid Condition

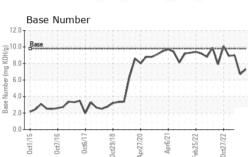
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

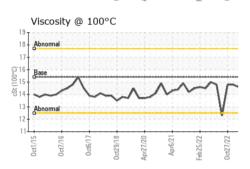
x10)		t2015 Oct20	16 Oct2017 Oct2018	Apr2020 Apr2021 Feb2022	0et2022	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091165	GFL0076979	GFL0064947
Sample Date		Client Info		28 Sep 2023	22 Jun 2023	06 Apr 2023
Machine Age	hrs	Client Info		0	0	20725
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	31	33	25
Chromium	ppm	ASTM D5185m	>5	1	2	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	1	2
Lead	ppm	ASTM D5185m	>150	2	1	0
Copper	ppm	ASTM D5185m	>90	1	<1	0
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	9	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	67	64	55
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1001	1006	839
Calcium	ppm	ASTM D5185m	1070	1151	1145	1030
Phosphorus	ppm	ASTM D5185m	1150	1048	1089	921
Zinc	ppm	ASTM D5185m	1270	1309	1342	1096
Sulfur	ppm	ASTM D5185m	2060	3137	3722	2816
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	8	8	9
Sodium	ppm	ASTM D5185m		120	37	35
Potassium	ppm	ASTM D5185m	>20	28	3	0
Glycol	%	*ASTM D2982		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	3.1	3.1	2
Nitration	Abs/cm	*ASTM D7624	>20	12.1	11.0	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.2	26.2	22.2
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	18.1	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.3	6.7	9.0
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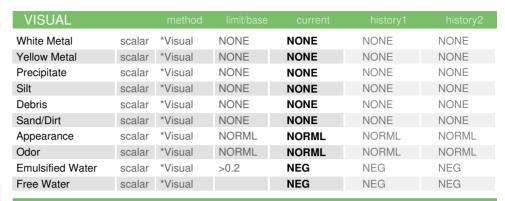


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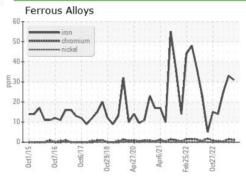


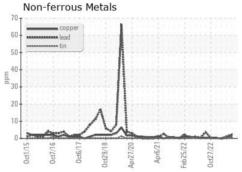


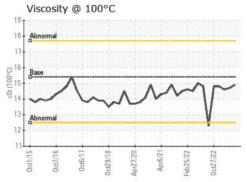


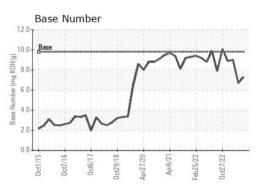
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.9	14.7	14.6

GRAPHS













Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0091165 : 05967495 : 10674046

Received Diagnosed Diagnostician

: 03 Oct 2023 : 04 Oct 2023 : Wes Davis

Contact: richard.belcher@gflenv.com

GFL Environmental - 020 - Alamance

T: (800)207-6618 F: (336)229-0526

703 East Gilbreath St

Graham, NC

US 27253

Test Package : FLEET (Additional Tests: Glycol) Certificate L2367

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)