

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Machine Id

829020-1071

Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

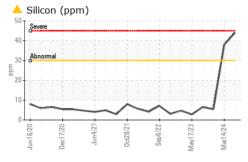
Fluid Condition

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

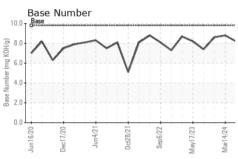
LTR)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116562	GFL0111895	GFL0108331
Sample Date		Client Info		29 Mar 2024	14 Mar 2024	11 Jan 2024
Machine Age	hrs	Client Info		14334	14224	13925
Oil Age	hrs	Client Info		13168	13357	13229
Oil Changed		Client Info		Changed	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>110	18	11	15
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	1
Lead	ppm	ASTM D5185m	>45	0	<1	<1
Copper	ppm	ASTM D5185m	>85	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	13	15	12
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	59	61
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	946	900	972
Calcium	ppm	ASTM D5185m	1070	1190	1092	1118
Phosphorus	ppm	ASTM D5185m	1150	1032	972	1100
Zinc	ppm	ASTM D5185m	1270	1250	1167	1273
Sulfur	ppm	ASTM D5185m	2060	3498	3158	3180
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	<u>44</u>	△ 38	5
Sodium	ppm	ASTM D5185m		2	2	3
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	0.6	0.9
Nitration	Abs/cm	*ASTM D7624	>20	6.5	5.6	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	18.5	19.5
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	13.2	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	8.8	8.6

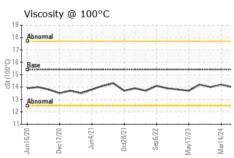


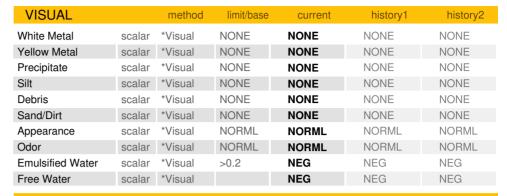
OIL ANALYSIS REPORT



	0xidat Nitrati	on				
25 - Abno	mal Sulfati	on	~	_		
15-	~	~^	Ň,	\sim		
	number of the Party of the Part	AND DESCRIPTION OF	V -	Sep6/22	May17/23	Mar14/24
02/91mp	Dec17/20 -	-	0ct28/21			

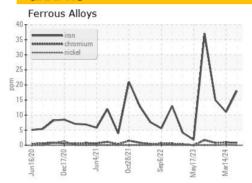


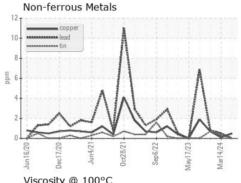


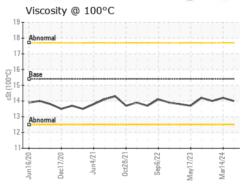


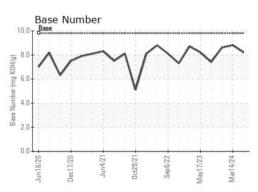
FLUID PROP	EHILES	method	iiiiii/base	current	riistory i	HIStory
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.2	14.0

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0116562

Lab Number : 06136806 Unique Number: 10956271 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Apr 2024 **Tested**

: 03 Apr 2024 : 04 Apr 2024 - Sean Felton Diagnosed

10954 Houser Drive Fredericksburg, VA US 22408

Contact: WILLIAM MILO wmilo@gflenv.com

GFL Environmental - 652 - Fredericksburg Hauling

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)

T: F: