WEAR CONTAMINATION FLUID CONDITION

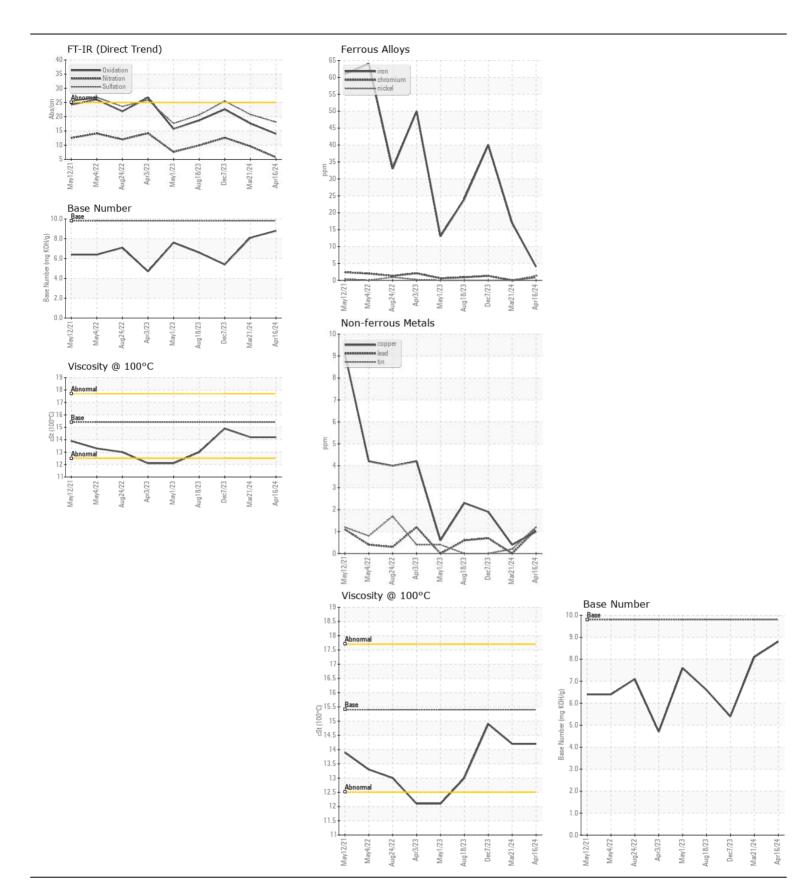
NORMAL NORMAL



Machine Id
4710M
Component
Diesel Engine

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

PETRO CANADA DURON SHP	15W40 ((JAL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0116908	GFL0116939	GFL0107021
	Sample Date		Client Info		16 Apr 2024	21 Mar 2024	07 Dec 2023
	Machine Age	hrs	Client Info		10004	10004	9751
	Oil Age	hrs	Client Info		600	600	600
	Filter Age	hrs	Client Info		600	600	600
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>80	4	17	40
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	1
	Nickel	ppm	ASTM D5185m		1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>30	1	2	6
	Lead	ppm	ASTM D5185m		1	0	<1
	Copper	ppm	ASTM D5185m		1	<1	2
	Tin	ppm	ASTM D5185m		1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliana		ACTM DE10E	00	•	0	4.4
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	2	11
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	<1	3
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	% Ala a /ave	*ASTM D7844		0.1	0.7	1.3
	Nitration	Abs/tmm	*ASTM D7624	>20	5.7	9.6	12.6
	Sulfation Silt	Abs/.1mm	*ASTM D7415		18.1 NONE	20.8	25.5 NONE
	Debris	scalar	*Visual	NONE		NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE NONE	NONE NONE	NONE
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
		Scalai	Visuai	>0.2		NLG	INLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	3	7
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	0	<1	3	<1
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		56	50	60
	Manganese	ppm	ASTM D5185m	0	1	<1	0
	Magnesium	ppm	ASTM D5185m		895	852	1085
	Calcium	ppm	ASTM D5185m		1058	960	1234
	Phosphorus	ppm	ASTM D5185m		1116	895	1132
	Zinc	ppm	ASTM D5185m		1215	1159	1323
	Sulfur	ppm	ASTM D5185m		3593	3012	2788
	Oxidation	Abs/.1mm	*ASTM D7414		14.0	17.6	22.6
	Base Number (BN)	0 0	ASTM D2896		8.8	8.1	5.4
	Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.2	14.9







Certificate L2367

Laboratory

Sample No.

: GFL0116908 Lab Number : 06152875

Unique Number: 10982953 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Apr 2024

Tested : 19 Apr 2024 Diagnosed

: 19 Apr 2024 - Wes Davis

GFL Environmental - 465 - Pontiac 888 Baldwin Pontiac, MI

US 48340 Contact: Ricky Matthews

rickymathews@gflenv.com T: (586)825-9514

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)