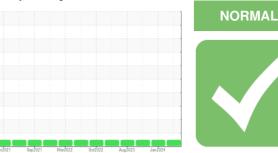


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id

644M
Component
Diesel Engine
Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

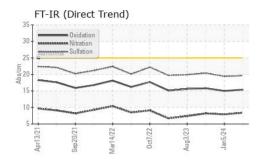
Fluid Condition

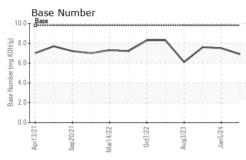
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

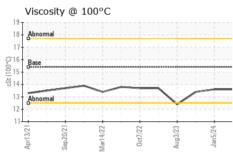
SAMPLE INFORM	AATION	method	limit/base	ourront	history1	history2			
	VIATION		IIIIIVbase	current					
Sample Number		Client Info		GFL0116869	GFL0107673	GFL0096578			
Sample Date		Client Info		01 Apr 2024	05 Jan 2024	19 Oct 2023			
Machine Age	hrs	Client Info		10167	9594	9015			
Oil Age	hrs	Client Info		600	600	600			
Oil Changed		Client Info		Changed	Changed	Changed			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>120	7	5	15			
Chromium	ppm	ASTM D5185m	>20	<1	0	<1			
Nickel	ppm	ASTM D5185m	>5	<1	0	0			
Titanium	ppm	ASTM D5185m	>2	0	0	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	2	<1	2			
Lead	ppm	ASTM D5185m	>40	<1	<1	<1			
Copper	ppm	ASTM D5185m	>330	<1	<1	<1			
Tin	ppm	ASTM D5185m	>15	0	0	<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	2	0	1			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	60	53	59			
Manganese	ppm	ASTM D5185m	0	<1	0	<1			
Magnesium	ppm	ASTM D5185m	1010	1006	910	937			
Calcium	ppm	ASTM D5185m	1070	1144	1034	1091			
Phosphorus	ppm	ASTM D5185m	1150	1000	908	976			
Zinc	ppm	ASTM D5185m	1270	1335	1228	1287			
Sulfur	ppm	ASTM D5185m	2060	3452	2618	2658			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	3	2	4			
Sodium	ppm	ASTM D5185m		3	3	15			
Potassium	ppm	ASTM D5185m	>20	2	4	15			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>4	0.6	0.7	0.8			
Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.9	8.2			
Sulfation	Abs/.1mm	*ASTM D7415		19.6	19.4	20.4			
FLUID DEGRADATION method limit/base current history1 history2									
	A1 / 4	*******	0.5						
Oxidation	Abs/.1mm	^ASTM11/414	>25	15.4	15.0	15.8			
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	15.4 6.9	15.0 7.5	15.8 7.6			

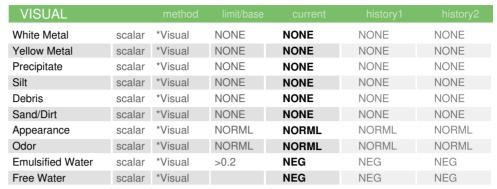


OIL ANALYSIS REPORT



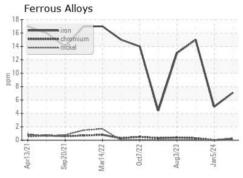




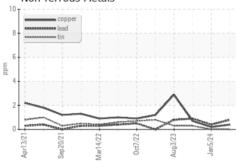


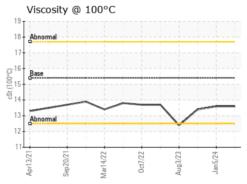
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.6	13.4	

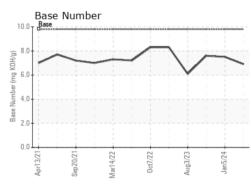
GRAPHS



Non-ferrous Metals











Certificate 12367

Laboratory Sample No. Lab Number : 06139167 Unique Number : 10963975

: GFL0116869

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Apr 2024 **Tested**

: 05 Apr 2024 Diagnosed : 05 Apr 2024 - Wes Davis GFL Environmental - 465 - Pontiac 888 Baldwin Pontiac, MI US 48340

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

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

 st - 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)