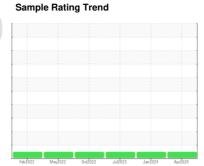


OIL ANALYSIS REPORT

OODT









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

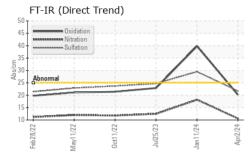
Fluid Condition

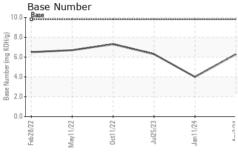
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

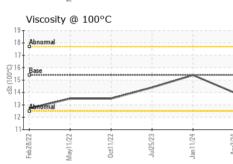
SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0104492	GFL0109999	GFL0085030			
Sample Date		Client Info		02 Apr 2024	11 Jan 2024	25 Jul 2023			
Machine Age	hrs	Client Info		25345	21052	33495			
Oil Age	hrs	Client Info		300	600	0			
Oil Changed		Client Info		Changed	Changed	Changed			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATION	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	3	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>75	23	27	59			
Chromium	ppm	ASTM D5185m	>5	2	2	2			
Nickel	ppm	ASTM D5185m	>4	<1	0	<1			
Titanium	ppm	ASTM D5185m	>2	<1	<1	0			
Silver	ppm	ASTM D5185m	>2	<1	0	0			
Aluminum	ppm	ASTM D5185m	>15	3	6	4			
Lead	ppm	ASTM D5185m	>25	<1	<1	0			
Copper	ppm	ASTM D5185m	>100	2	1	2			
Tin	ppm	ASTM D5185m	>4	<1	0	0			
Vanadium	ppm	ASTM D5185m		<1	<1	0			
Cadmium	ppm	ASTM D5185m		<1	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	1	<1	4			
Barium	ppm	ASTM D5185m	0	0	<1	0			
Molybdenum	ppm	ASTM D5185m	60	64	51	67			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	991	836	1080			
Calcium	ppm	ASTM D5185m	1070	1102	916	1182			
Phosphorus	ppm	ASTM D5185m	1150	1020	923	1143			
Zinc	ppm	ASTM D5185m	1270	1292	1133	1408			
Sulfur	ppm	ASTM D5185m	2060	2956	2472	3428			
CONTAMINANT	ΓS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	6	16	11			
Sodium	ppm	ASTM D5185m		7	7	42			
Potassium	ppm	ASTM D5185m	>20	2	2	8			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>6	0.4	0.6	1			
Nitration	Abs/cm	*ASTM D7624	>20	10.6	18.2	12.5			
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	29.5	24.7			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	39.8	22.9			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.3	4.0	6.3			
,									

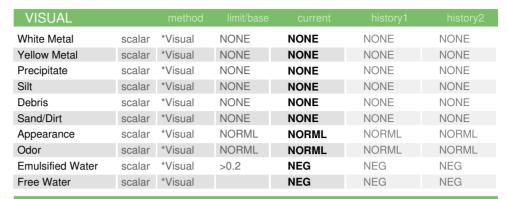


OIL ANALYSIS REPORT



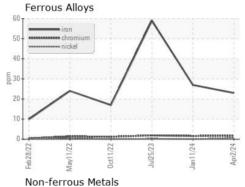


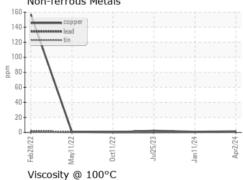


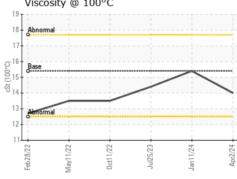


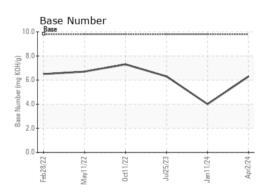
FLUID PROPI	ERITES	method	ilmit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	15.4	14.4

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06140945 Unique Number : 10965753

: GFL0104492

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

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Apr 2024 **Tested** : 08 Apr 2024

Diagnosed : 08 Apr 2024 - Wes Davis

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184

Contact: Belal Dgheish bdgheish@gflenv.com T: (734)714-2340

 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)