

OIL ANALYSIS REPORT

Sample Rating Trend Nord023 Nord023 Mad024 Mad024 Mad024 Mad024







Machine Id
813017
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

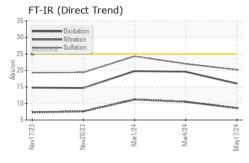
Fluid Condition

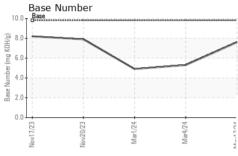
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

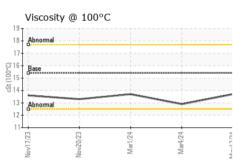
`	GAL)					
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122378	GFL0108892	GFL010897
Sample Date		Client Info		17 May 2024	04 Mar 2024	01 Mar 2024
Machine Age	hrs	Client Info		4807	130	4201
Oil Age	hrs	Client Info		817	600	3384
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
-uel		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 META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	12	66	28
Chromium	ppm	ASTM D5185m	>20	1	2	1
Nickel	ppm	ASTM D5185m	>5	2	7	8
Γitanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	1	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	8	2
_ead	ppm	ASTM D5185m	>40	1	0	0
Copper	ppm	ASTM D5185m	>330	2	80	4
Γin	ppm	ASTM D5185m	>15	2	2	<1
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	0	10	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	99	64
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	967	1436	969
Calcium	ppm		1070	1105	1720	1051
Phosphorus	ppm	ASTM D5185m	1150	1105	1394	1009
Zinc	ppm	ASTM D5185m	1270	1268	1910	1278
Sulfur	ppm	ASTM D5185m	2060	3468	3952	2572
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	15	5
Sodium	ppm	ASTM D5185m		3	9	6
Potassium	ppm	ASTM D5185m	>20	3	22	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7	8.0	1.4
Vitration	Abs/cm	*ASTM D7624	>20	8.6	10.5	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	22.0	24.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	19.6	19.8
JAIGALIOIT	AUS/. ! ! ! ! ! !	ASTIVI D/414	>23	10.0	13.0	13.0

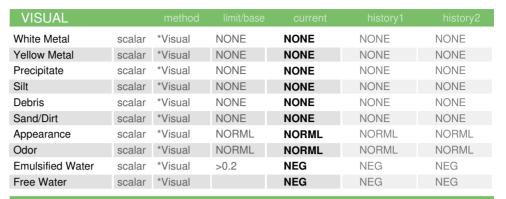


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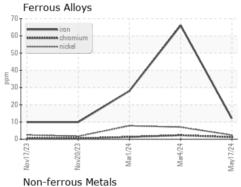


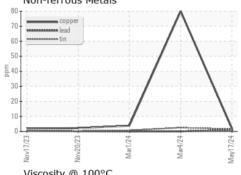


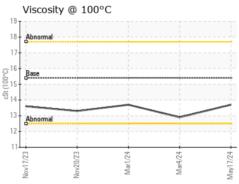


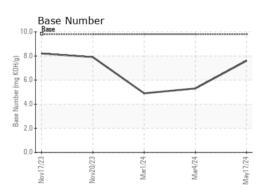
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	12.9	13.7

GRAPHS













Laboratory Sample No. Lab Number : 06187374

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0122378

Unique Number : 11044126 Test Package : FLEET

Received **Tested** Diagnosed

: 22 May 2024 : 23 May 2024

: 23 May 2024 - Wes Davis

GFL Environmental - 415 - Michigan East 6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak

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

Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 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)