

OIL ANALYSIS REPORT

Sample Rating Trend





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

DIAGNOSIS
Recommendation

Resample at the next service interval to monitor.

Machine Id

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

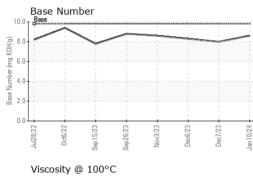
Fluid Condition

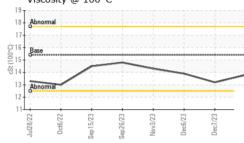
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110008	GFL0059238	GFL0104358
Sample Date		Client Info		10 Jan 2024	07 Dec 2023	06 Dec 2023
Machine Age	hrs	Client Info		14620	14538	14382
Oil Age	hrs	Client Info		82	14283	255
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron			>200	5	5	10
Chromium	ppm			0	<1	0
Nickel	ppm	ASTM D5185m ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m ASTM D5185m	>2	0	0	0
Aluminum	ppm			1	2	1
Lead	ppm	ASTM D5185m ASTM D5185m	>30 >30	0	2	0
	ppm			v <1	<1	0
Copper Tin	ppm	ASTM D5185m ASTM D5185m	>30 >15	0	<1	0
Vanadium	ppm	ASTM D5185m	>10	v <1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm			0	-	-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	3	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	47	54
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	968	813	996
Calcium	ppm	ASTM D5185m	1070	961	833	1060
Phosphorus	ppm	ASTM D5185m	1150	1055	927	1060
Zinc	ppm	ASTM D5185m	1270	1255	1113	1252
Sulfur	ppm	ASTM D5185m	2060	3114	2746	3080
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	8	2
Sodium	ppm	ASTM D5185m		3	2	0
Potassium	ppm	ASTM D5185m	>20	1	3	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.8	3.9	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	18.0	18.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	13.0	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	8.0	8.3
	0					

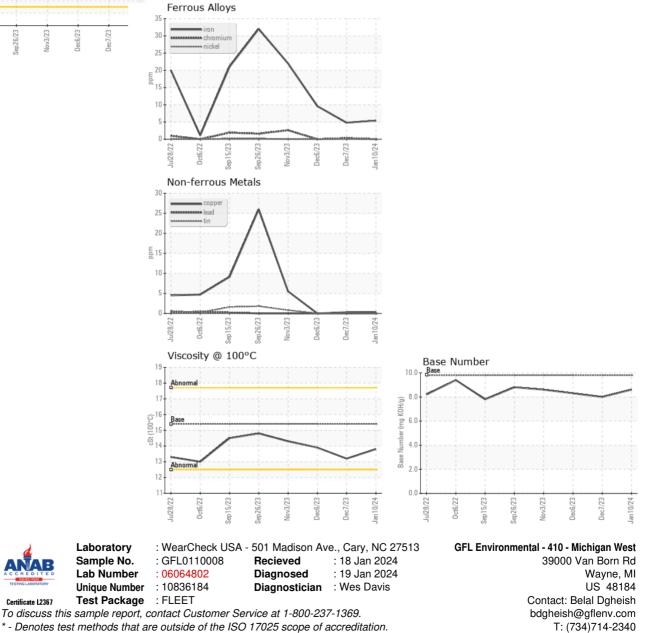


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.2	13.9
GRAPHS						





* - 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)

F:

Certificate L2367