

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 523005-7219

Component Diesel Engine

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

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.

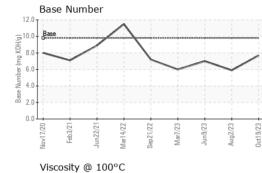
Fluid Condition

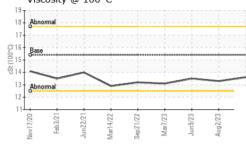
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0091801	GFL0086566	GFL0067851			
Sample Date		Client Info		19 Oct 2023	02 Aug 2023	09 Jun 2023			
Machine Age	hrs	Client Info		24469	23985	23653			
Dil Age	hrs	Client Info		21220	0	0			
Oil Changed		Client Info		Not Changd	Changed	Not Changd			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METAL	S	method	limit/base	current	history1	history2			
ron		ASTM D5185m	>120	7	25	17			
Chromium	ppm ppm	ASTM D5185m		، <1	1	1			
Nickel	ppm	ASTM D5185m		<1	<1	<1			
Titanium	ppm	ASTM D5185m		<1	0	0			
Silver	ppm	ASTM D5185m		0	<1	0			
Aluminum	ppm	ASTM D5185m	>20	3	8	8			
_ead	ppm	ASTM D5185m	>40	<1	2	0			
Copper	ppm	ASTM D5185m	>330	2	6	3			
Tin	ppm	ASTM D5185m	>15	1	<1	<1			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		<1	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	<1	0	2			
Barium	ppm	ASTM D5185m	0	0	0	0			
Volybdenum	ppm	ASTM D5185m	60	52	65	64			
Vanganese	ppm	ASTM D5185m	0	<1	<1	<1			
Vagnesium	ppm	ASTM D5185m	1010	939	948	1006			
Calcium	ppm	ASTM D5185m	1070	964	1115	1129			
Phosphorus	ppm	ASTM D5185m	1150	888	1017	1070			
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1270	1184	1262	1346 3669			
	ppm			2694	2851				
CONTAMINAN	ITS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	5	6	5			
Sodium	ppm	ASTM D5185m		3	4	4			
Potassium	ppm	ASTM D5185m	>20	3	3	<1			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>4	0.3	0.5	0.4			
Nitration	Abs/cm	*ASTM D7624	>20	6.9	9.0	8.4			
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	20.7	20.1			
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	16.8	17.2			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	5.9	7.0			

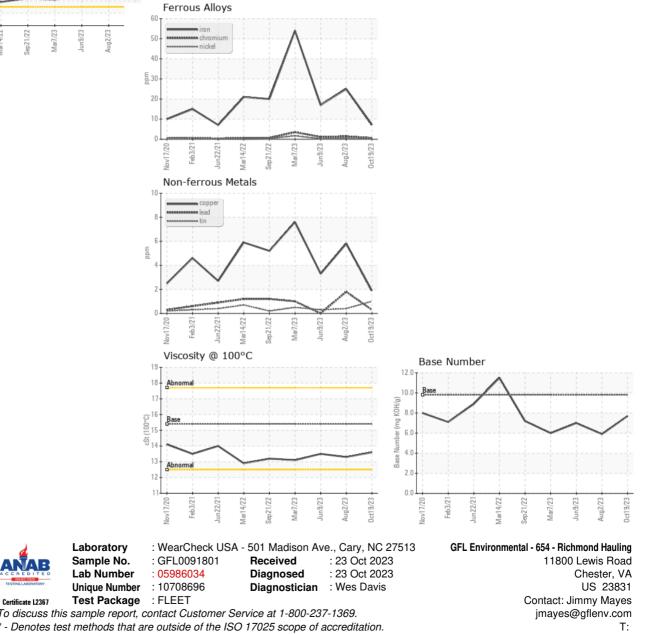


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.6	13.3	13.5
GRAPHS						



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)

Submitted By: TECHNICIAN ACCOUNT

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