

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 525145- SW7531 FREIGHTLINER CASCADIA 125

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (---

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

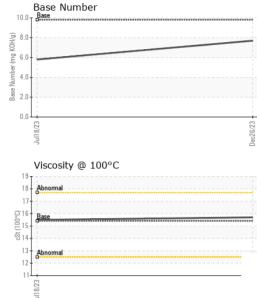
Fluid Condition

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

0.41.						
GAL)			Jul2023	Dec2023		
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0066607	GFL0085487	
Sample Date		Client Info		26 Dec 2023	18 Jul 2023	
Machine Age	mls	Client Info		0	362717	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	5	52	
Chromium	ppm	ASTM D5185m	>5	<1	2	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>30	2	10	
Lead	ppm	ASTM D5185m	>30	<1	0	
Copper	ppm		>150	4	10	
Tin	ppm	ASTM D5185m	>5	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	0	
Barium	ppm	ASTM D5185m	0	0	2	
Molybdenum	ppm	ASTM D5185m	60	39	41	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	1010	23	576	
Calcium	ppm	ASTM D5185m	1070	2328	1743	
Phosphorus	ppm	ASTM D5185m	1150	1018	1001	
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		1195 2998	1249 3818	
CONTAMINAN		method	limit/base		history1	history2
Silicon				5	· ·	TIISTOLYZ
Sodium	ppm	ASTM D5185m ASTM D5185m	>20		0	
Potassium	ppm		>20	<1 3	6	
INFRA-RED	Pp	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	1.2	
Nitration	Abs/cm	*ASTM D7624		6.2	12.5	
Sulfation	Abs/.1mm	*ASTM D7024	>30	16.1	28.1	
FLUID DEGRA			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.5	22.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	5.8	



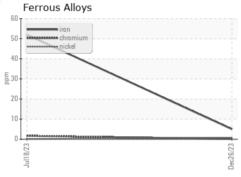
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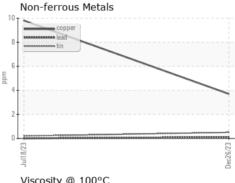


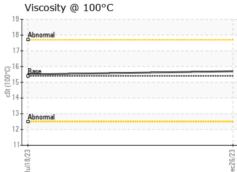
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID DDODE	DTIES					

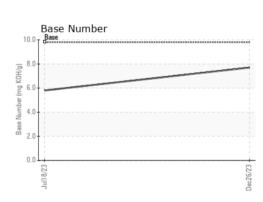
FLUID PROPE	RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.7	15.5	

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10810342

Test Package : FLEET

: GFL0066607 : 06049734

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

: 03 Jan 2024 : 04 Jan 2024 Diagnostician : Don Baldridge GFL Environmental - 980 - Northside Hauling 1820 Candle Ridge Park Dr Houston, TX

US 77073 Contact: Edwin Collins ecollins@gflenv.com

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)

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