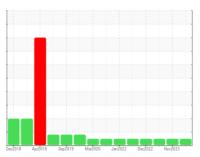


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id FREIGHTLINER 1152

Component

Component

Diesel Engine

CHEVRON DELO 400 XLE 10W30 (40 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

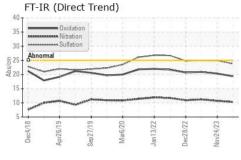
Fluid Condition

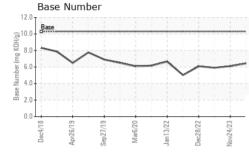
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

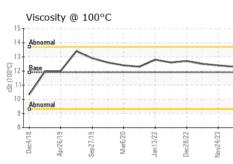
Dec2018 Apr2019 Sep2019 Mar2020 Jan2022 Dec2022 Nov2023							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0733179	WC0733150	WC0733100	
Sample Date		Client Info		24 Apr 2024	24 Nov 2023	21 Jul 2023	
Machine Age	kms	Client Info		858880	799802	734202	
Oil Age	kms	Client Info		65000	65000	65000	
Oil Changed		Client Info		Changed	N/A	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	1	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		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>65	18	19	22	
Chromium	ppm	ASTM D5185m	>5	1	1	1	
Nickel	ppm	ASTM D5185m	>3	0	0	0	
Titanium	ppm	ASTM D5185m	>5	<1	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>35	10	9	9	
Lead	ppm	ASTM D5185m	>10	<1	0	0	
Copper	ppm	ASTM D5185m	>180	3	4	4	
Tin	ppm	ASTM D5185m	>8	0	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		28	22	25	
Barium	ppm	ASTM D5185m		<1	6	0	
Molybdenum	ppm	ASTM D5185m		3	<1	0	
Manganese	ppm	ASTM D5185m		<1	0	<1	
Magnesium	ppm	ASTM D5185m		741	764	860	
Calcium	ppm	ASTM D5185m	2900	1463	1382	1586	
Phosphorus	ppm	ASTM D5185m	1100	739	798	830	
Zinc	ppm	ASTM D5185m	1200	869	891	973	
Sulfur	ppm	ASTM D5185m	4000	3286	3188	3811	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	6	6	6	
Sodium	ppm	ASTM D5185m		6	2	<1	
Potassium	ppm	ASTM D5185m		5	6	6	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.7	0.8	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.7	11.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	24.9	25.0	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	20.3	20.9	
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	6.43	6.10	5.91	



OIL ANALYSIS REPORT





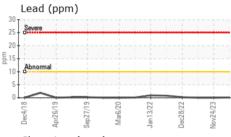


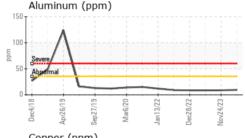
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

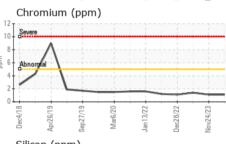
FLUID FROFER	THES	memou			HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	11.9	12.3	12.4	12.5

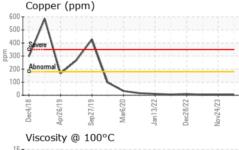
Iron	ppm (ppm)				,	
Sever	e						1
Abno	rmal						
50	\wedge						-
0	19	19	720	722	722	73	<u> </u>
Dec4/	Apr26/19	Sep27/	Mar6/20	Jan 13,	Dec28/27	Nov24/2	
Alur	minum	(ppm)				

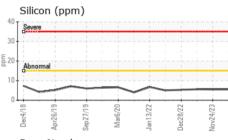
GRAPHS

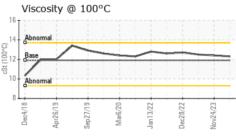


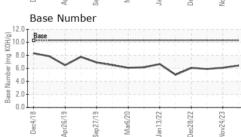
















Certificate 12367

Laboratory Sample No.

: WC0733179 Lab Number : 06175716 Unique Number : 11021769

Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 May 2024

Tested : 13 May 2024 Diagnosed : 13 May 2024 - Sean Felton

LYNDEN TRANSPORT - SPRUCE GROVE 27340 ACHESON RD, ACHESON INDUSTRIAL PARK

ACHESON, AB **CA T7X 6B1**

Contact: Mathieu Carby mcarby@lynden.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)

T:

F: