

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

FREIGHTLINER 1172

Component Diesel Engine

Fluid 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.

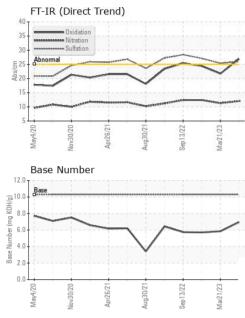
Fluid Condition

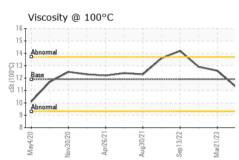
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

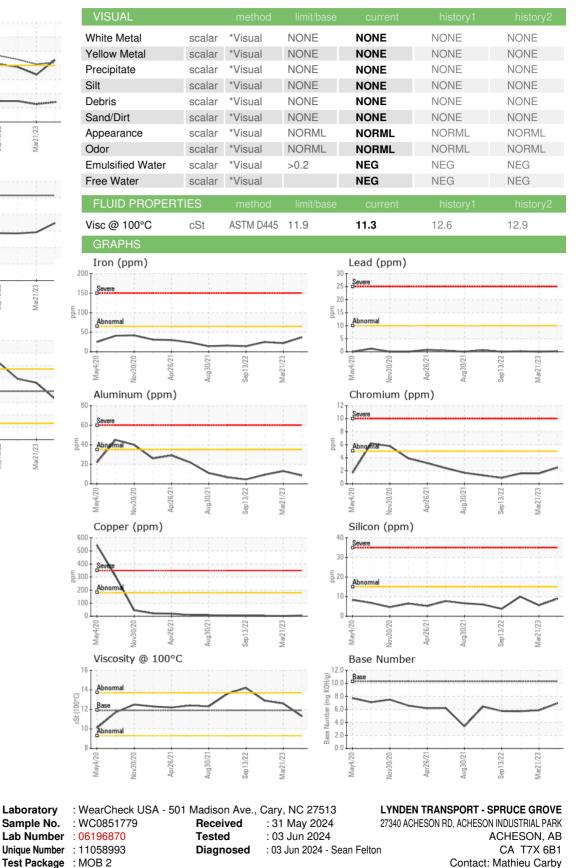
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0851779	WC0733056	WC0593860
Sample Date		Client Info		21 May 2024	21 Mar 2023	16 Jan 2023
Machine Age	mls	Client Info		623817	451082	506429
Oil Age	mls	Client Info		40000	40000	40000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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	37	22	25
Chromium		ASTM D5185m		2	2	2
Nickel	ppm	ASTM D5185m	>3	2 <1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm ppm	ASTM D5185m	>0	<1	0	0
Aluminum	ppm	ASTM D5185m		8	13	9
Lead	ppm		>10	۰ <1	0	<1
Copper		ASTM D5185m		6	2	3
Tin	ppm ppm	ASTM D5185m	>8	1	<1	<1
Vanadium	ppm	ASTM D5185m	>0	، <1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
Caumum	ppin	AO INI DO IODIII				0
		and the second	Paral la recen		la facta a sud	la la tana 0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	limit/base	30	28	21
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m	limit/base	30 2	28 0	21 0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	30 2 42	28 0 4	21 0 16
Boron Barium Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	30 2 42 <1	28 0 4 <1	21 0 16 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		30 2 42 <1 653	28 0 4 <1 811	21 0 16 <1 672
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2900	30 2 42 <1 653 1782	28 0 4 <1 811 1447	21 0 16 <1 672 1517
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2900 1100	30 2 42 <1 653 1782 943	28 0 4 <1 811 1447 764	21 0 16 <1 672 1517 752
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2900 1100 1200	30 2 42 <1 653 1782 943 1030	28 0 4 <1 811 1447 764 915	21 0 16 <1 672 1517 752 885
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2900 1100	30 2 42 <1 653 1782 943	28 0 4 <1 811 1447 764	21 0 16 <1 672 1517 752
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2900 1100 1200	30 2 42 <1 653 1782 943 1030	28 0 4 <1 811 1447 764 915	21 0 16 <1 672 1517 752 885
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2900 1100 1200 4000	30 2 42 <1 653 1782 943 1030 2923	28 0 4 <1 811 1447 764 915 3666 history1 6	21 0 16 <1 672 1517 752 885 3396 history2 10
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2900 1100 1200 4000 limit/base	30 2 42 <1 653 1782 943 1030 2923 current 9 2	28 0 4 <1 811 1447 764 915 3666 history1 6 3	21 0 16 <1 672 1517 752 885 3396 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	2900 1100 1200 4000 limit/base	30 2 42 <1 653 1782 943 1030 2923 current 9	28 0 4 <1 811 1447 764 915 3666 history1 6	21 0 16 <1 672 1517 752 885 3396 history2 10
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2900 1100 1200 4000 limit/base >15	30 2 42 <1 653 1782 943 1030 2923 current 9 2	28 0 4 <1 811 1447 764 915 3666 history1 6 3	21 0 16 <1 672 1517 752 885 3396 history2 10 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2900 1100 1200 4000 limit/base >15 >20	30 2 42 <1 653 1782 943 1030 2923 current 9 2 2 9	28 0 4 <1 811 1447 764 915 3666 history1 6 3 12	21 0 16 <1 672 1517 752 885 3396 history2 10 <1 9 history2 0.9
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2900 1100 1200 4000 limit/base >15 >20 limit/base	30 2 42 <1 653 1782 943 1030 2923 current 9 2 9 9 2	28 0 4 <1 811 1447 764 915 3666 history1 6 3 12 history1	21 0 16 <1 672 1517 752 885 3396 history2 10 <1 9 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2900 1100 1200 4000 limit/base >15 >20 limit/base >3	30 2 42 <1 653 1782 943 1030 2923 current 9 2 9 2 9 current	28 0 4 <1 811 1447 764 915 3666 history1 6 3 12 history1 0.8	21 0 16 <1 672 1517 752 885 3396 history2 10 <1 9 history2 0.9
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	29900 11000 1200 4000 limit/base >15 >20 limit/base >3 >20	30 2 42 <1 653 1782 943 1030 2923 current 9 2 9 current 0.8 12.0	28 0 4 <1 811 1447 764 915 3666 history1 6 3 6 3 12 history1 0.8 11.3	21 0 16 <1 672 1517 752 885 3396 history2 10 <1 9 history2 0.9 12.4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2900 1100 1200 4000 Imit/base >15 >20 Imit/base >3 >20 >30	30 2 42 <1 653 1782 943 1030 2923 current 9 2 9 current 0.8 12.0 26.0	28 0 4 <1 811 1447 764 915 3666 history1 6 3 12 history1 0.8 11.3 25.4	21 0 16 <1 672 1517 752 885 3396 history2 10 <1 9 history2 0.9 12.4 27.1



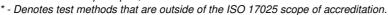
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To discuss this sample report, contact Customer Service at 1-800-237-1369.



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate 12367

Laboratory

Sample No.

Contact/Location: Mathieu Carby - LYNSPR Page 2 of 2

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