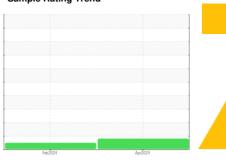


OIL ANALYSIS REPORT

Sample Rating Trend





A

Machine Id
1187
Component
Diesel Engine

CHEVRON DELO 400 XLE 10W30 (--- LTR)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The aluminum level is abnormal. All other 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		<u>, </u>	Feb 2024	Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
	ATION		IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			
Sample Number		Client Info		WC0851842	WC0733165	
Sample Date		Client Info		15 Apr 2024	20 Feb 2024	
Machine Age	mls	Client Info		321598	282521	
Oil Age	mls	Client Info		40000	40000	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
CONTAMINATION	V	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 METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	27	27	
Chromium	ppm	ASTM D5185m	>20	3	2	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	<u>^</u> 20	15	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	7	7	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium						
Cadilliulli	ppm	ASTM D5185m		0	0	
ADDITIVES	ppm	ASTM D5185m method	limit/base	0 current	0 history1	history2
		method	limit/base	current	history1	
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 21		history2
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 21 2	history1 24 0	history2
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 21 2 7	history1 24 0 36	history2
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	21 2 7 2	history1 24 0 36 <1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		current 21 2 7 2 765	history1 24 0 36 <1 530	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2900	current 21 2 7 2 765 1563	history1 24 0 36 <1 530 1595	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		current 21 2 7 2 765	history1 24 0 36 <1 530	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	method ASTM D5185m	2900 1100	current 21 2 7 2 765 1563 748	history1 24 0 36 <1 530 1595 695	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2900 1100 1200	current 21 2 7 2 765 1563 748 860	history1 24 0 36 <1 530 1595 695 888 2262	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2900 1100 1200 4000 limit/base	current 21 2 7 2 765 1563 748 860 3335 current	history1 24 0 36 <1 530 1595 695 888 2262 history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2900 1100 1200 4000	current 21 2 7 2 765 1563 748 860 3335 current 6	history1 24 0 36 <1 530 1595 695 888 2262 history1 5	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2900 1100 1200 4000 limit/base >25	current 21 2 7 2 765 1563 748 860 3335 current	history1 24 0 36 <1 530 1595 695 888 2262 history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2900 1100 1200 4000 limit/base >25 >20	current 21 2 7 2 765 1563 748 860 3335 current 6 5	history1 24 0 36 <1 530 1595 695 888 2262 history1 5 2	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2900 1100 1200 4000 limit/base >25 >20 limit/base	current 21 2 7 2 765 1563 748 860 3335 current 6 5 16 current	history1 24 0 36 <1 530 1595 695 888 2262 history1 5 2 9	history2 history2 history2
ADDITIVES 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	method ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2900 1100 1200 4000 limit/base >25 >20 limit/base >3	current 21 2 7 2 765 1563 748 860 3335 current 6 5 16 current 0.9	history1 24 0 36 <1 530 1595 695 888 2262 history1 5 2 9 history1 0.8	history2 history2 history2 history2
ADDITIVES 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	method ASTM D5185m method ASTM D5185m	2900 1100 1200 4000 limit/base >25 >20 limit/base >3 >20	current 21 2 7 2 765 1563 748 860 3335 current 6 5 16 current 0.9 10.2	history1 24 0 36 <1 530 1595 695 888 2262 history1 5 2 9 history1 0.8 10.4	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm	method ASTM D5185m method *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	2900 1100 1200 4000 limit/base >25 >20 limit/base >3 >20 >30	current 21 2 7 2 765 1563 748 860 3335 current 6 5 16 current 0.9 10.2 23.9	history1 24 0 36 <1 530 1595 695 888 2262 history1 5 2 9 history1 0.8 10.4 22.5	history2 history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	2900 1100 1200 4000 limit/base >25 >20 limit/base >3 >20 >30 limit/base	current 21 2 7 2 765 1563 748 860 3335 current 6 5 16 current 0.9 10.2 23.9 current	history1 24 0 36 <1 530 1595 695 888 2262 history1 5 2 9 history1 0.8 10.4 22.5 history1	history2 history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA Oxidation	ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D5185m ASTM D5185m *ASTM D5185m method *ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 method *ASTM D7414	2900 1100 1200 4000 limit/base >25 >20 limit/base >3 >20 >30 limit/base	current 21 2 7 2 765 1563 748 860 3335 current 6 5 16 current 0.9 10.2 23.9 current 18.7	history1 24 0 36 <1 530 1595 695 888 2262 history1 5 2 9 history1 0.8 10.4 22.5 history1 22.0	history2 history2 history2 history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	2900 1100 1200 4000 limit/base >25 >20 limit/base >3 >20 >30 limit/base	current 21 2 7 2 765 1563 748 860 3335 current 6 5 16 current 0.9 10.2 23.9 current	history1 24 0 36 <1 530 1595 695 888 2262 history1 5 2 9 history1 0.8 10.4 22.5 history1	history2 history2 history2 history2 history2 history2

Contact/Location: Mathieu Carby - LYNSPR



OIL ANALYSIS REPORT







Laboratory Sample No.

: WC0851842 Lab Number : 06156200 Unique Number: 10991623 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Apr 2024

Tested : 23 Apr 2024 Diagnosed : 24 Apr 2024 - Sean Felton

27340 ACHESON RD, ACHESON INDUSTRIAL PARK ACHESON, AB

CA T7X 6B1 Contact: Mathieu Carby mcarby@lynden.com

Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

Contact/Location: Mathieu Carby - LYNSPR

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