

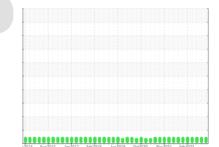
OIL ANALYSIS REPORT



COLORADO/443/EG - LOADER 46.69L [COLORADO^443^EG - LOADER]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)



Sample Rating Trend





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

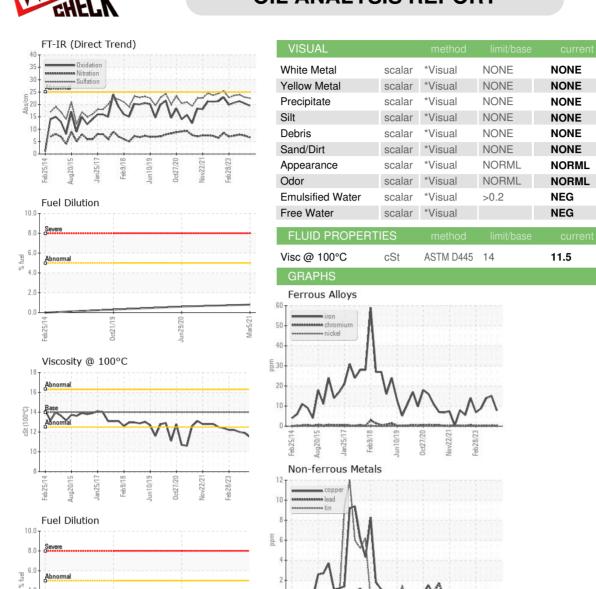
Fluid Condition

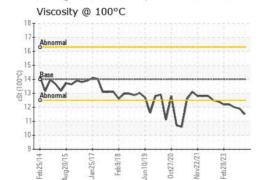
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

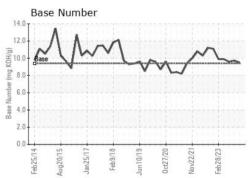
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0928704	WC0884016	WC0859560
Sample Date		Client Info		31 May 2024	19 Feb 2024	19 Oct 2023
Machine Age	hrs	Client Info		15410	15172	14882
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1113	Client Info		Changed	Changed	Changed
		Ciletit iiiio		NORMAL	NORMAL	NORMAL
Sample Status				NORMAL		
CONTAMINATION	J	method	limit/base	current	history1	history2
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	>100	8	15	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	4	2
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method				history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 68	history1 78	history2 57
	ppm		0			
Boron		ASTM D5185m	0	68	78	57
Boron Barium	ppm	ASTM D5185m ASTM D5185m	0	68 0	78 0	57 3
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0	68 0 39	78 0 58	57 3 46
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	68 0 39	78 0 58 0	57 3 46 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	68 0 39 0 465	78 0 58 0 733	57 3 46 <1 522
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	68 0 39 0 465 1601	78 0 58 0 733 2283	57 3 46 <1 522 1750
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	68 0 39 0 465 1601 747	78 0 58 0 733 2283 1080	57 3 46 <1 522 1750 786
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 ASTM D5185m	0 0 0	68 0 39 0 465 1601 747 866	78 0 58 0 733 2283 1080 1308	57 3 46 <1 522 1750 786 955
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 ASTM D5185m	0 0 0 0	68 0 39 0 465 1601 747 866 2554	78 0 58 0 733 2283 1080 1308 3799	57 3 46 <1 522 1750 786 955 2822
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0	68 0 39 0 465 1601 747 866 2554 current	78 0 58 0 733 2283 1080 1308 3799 history1	57 3 46 <1 522 1750 786 955 2822 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 	68 0 39 0 465 1601 747 866 2554 current	78 0 58 0 733 2283 1080 1308 3799 history1 6	57 3 46 <1 522 1750 786 955 2822 history2 4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 limit/base >25 >20	68 0 39 0 465 1601 747 866 2554 current 4	78 0 58 0 733 2283 1080 1308 3799 history1 6 2	57 3 46 <1 522 1750 786 955 2822 history2 4 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 limit/base >25 >20	68 0 39 0 465 1601 747 866 2554 current 4 0 1	78 0 58 0 733 2283 1080 1308 3799 history1 6 2 2	57 3 46 <1 522 1750 786 955 2822 history2 4 0 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 	68 0 39 0 465 1601 747 866 2554 current 4 0 1 <1.0	78 0 58 0 733 2283 1080 1308 3799 history1 6 2 2 <1.0	57 3 46 <1 522 1750 786 955 2822 history2 4 0 1 <1.0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 limit/base >25 >20 >5	68 0 39 0 465 1601 747 866 2554 current 4 0 1 <1.0	78 0 58 0 733 2283 1080 1308 3799 history1 6 2 2 <1.0 history1	57 3 46 <1 522 1750 786 955 2822 history2 4 0 1 <1.0 history2 0.8
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm	ASTM D5185m	0 0 0 0 0 limit/base >25 >20 >5 limit/base >3 >20	68 0 39 0 465 1601 747 866 2554 current 4 0 1 <1.0 current 0.5	78 0 58 0 733 2283 1080 1308 3799 history1 6 2 2 <1.0 history1 0.7	57 3 46 <1 522 1750 786 955 2822 history2 4 0 1 <1.0 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844	0 0 0 0 0 limit/base >25 >20 >5 limit/base >3 >20	68 0 39 0 465 1601 747 866 2554 current 4 0 1 <1.0 current 0.5 6.7	78 0 58 0 733 2283 1080 1308 3799 history1 6 2 2 <1.0 history1 0.7 7.4	57 3 46 <1 522 1750 786 955 2822 history2 4 0 1 <1.0 history2 0.8 7.8
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7624 *ASTM D7415 method	0 0 0 0 0 	68 0 39 0 465 1601 747 866 2554 current 4 0 1 <1.0 current 0.5 6.7 22.5 current	78 0 58 0 733 2283 1080 1308 3799 history1 6 2 2 <1.0 history1 0.7 7.4 22.9 history1	57 3 46 <1 522 1750 786 955 2822 history2 4 0 1 <1.0 history2 0.8 7.8 23.9 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7624	0 0 0 0 0 	68 0 39 0 465 1601 747 866 2554 current 4 0 1 <1.0 current 0.5 6.7 22.5	78 0 58 0 733 2283 1080 1308 3799 history1 6 2 2 <1.0 history1 0.7 7.4 22.9	57 3 46 <1 522 1750 786 955 2822 history2 4 0 1 <1.0 history2 0.8 7.8 23.9



OIL ANALYSIS REPORT







NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

11.9

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

12.0





Certificate 12367

0ct21/19

Laboratory Sample No.

: WC0928704 Lab Number : 06207644 Unique Number : 11075105

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jun 2024 **Tested** Diagnosed

: 14 Jun 2024 : 14 Jun 2024 - Angela Borella Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS US 67213 Contact: BILL ORCUTT

william.orcutt@wildcat.net T:

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)

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