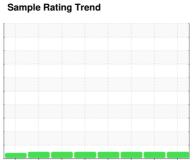


OIL ANALYSIS REPORT









COLORADO/443 48.05L [COLORADO^443]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (7 GAL)

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

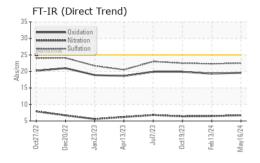
Fluid Condition

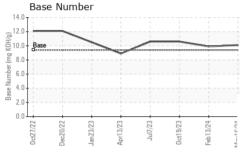
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

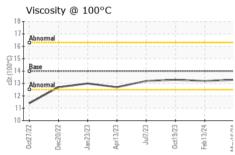
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0928717	WC0884046	WC0859558
Sample Date		Client Info		16 May 2024	13 Feb 2024	19 Oct 2023
Machine Age	hrs	Client Info		1980	1680	1443
Oil Age	hrs	Client Info		0	0	242
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel	•	WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method	<i>></i> 0.∠	NEG	NEG	NEG
				NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	9	9	10
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	2	2
Lead	ppm	ASTM D5185m	>40	<1	2	<1
Copper	ppm	ASTM D5185m	>330	2	1	2
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	54	52	51
Barium	ppm	ASTM D5185m	0	0	0	3
Molybdenum	ppm	ASTM D5185m	0	41	45	45
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	0	483	556	510
Calcium	ppm	ASTM D5185m		1710	1707	1758
Phosphorus	ppm	ASTM D5185m		794	825	785
Zinc	ppm	ASTM D5185m		929	1006	967
Sulfur	ppm	ASTM D5185m		2739	2636	3135
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	6
- "						
Sodium	ppm	ASTM D5185m		<1	2	0
Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>20	<1 2	2 <1	0 2
			>20 limit/base			
Potassium		ASTM D5185m		2	<1	2
Potassium INFRA-RED	ppm %	ASTM D5185m method *ASTM D7844	limit/base	current 0.7	<1 history1 0.6	2 history2 0.6
Potassium INFRA-RED Soot %	ppm	ASTM D5185m method	limit/base	2 current	<1 history1	2 history2
Potassium INFRA-RED Soot % Nitration	ppm % Abs/cm Abs/.1mm	Method *ASTM D7844 *ASTM D7624	limit/base >3 >20	2 current 0.7 6.7	<1 history1 0.6 6.5	2 history2 0.6 6.4
Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	limit/base >3 >20 >30 limit/base	2 current 0.7 6.7 22.5 current	<1 history1 0.6 6.5 22.3 history1	2 history2 0.6 6.4 22.5 history2
Potassium INFRA-RED Soot % Nitration Sulfation	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >3 >20 >30 limit/base >25	2 current 0.7 6.7 22.5	<1 history1 0.6 6.5 22.3	2 history2 0.6 6.4 22.5

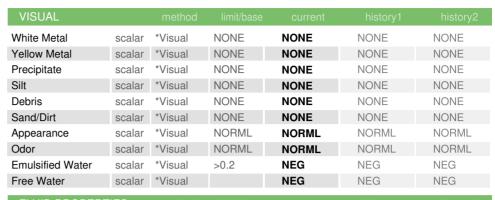


OIL ANALYSIS REPORT



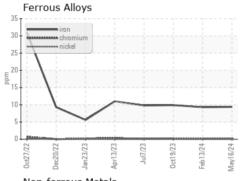


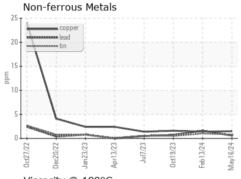


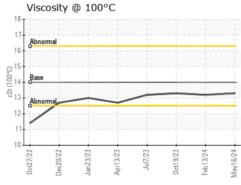


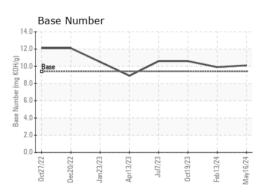
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	14	13.3	13.2	13.3	

GRAPHS













Certificate 12367

Laboratory Sample No.

Unique Number : 11075094

: WC0928717 Lab Number : 06207633

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

: 12 Jun 2024 **Tested** : 13 Jun 2024 Diagnosed

: 13 Jun 2024 - Wes Davis

3219 WEST MAY ST WICHITA, KS US 67213 Contact: BILL ORCUTT william.orcutt@wildcat.net

Test Package : CONST (Additional Tests: TBN) 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)

F: x: Submitted By: BRANDEN JAQUIAS

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