

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area COLORADO/443/SKIDSTEER 53.183L [COLORADO^443^SKIDSTEER] **Diesel Engine**

Fluid DIESEL ENGI

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	SAE 15W40 (G		method	limit/base	Janžoza Mayžo Current	²⁴ history1	history2
				mmubase			
	Sample Number		Client Info		WC0928721	WC0884083	WC0862637
	Sample Date		Client Info		23 May 2024	31 Jan 2024	23 Oct 2023
	Machine Age	hrs	Client Info		548	265	4
	Oil Age	hrs	Client Info		0	0	4
	Oil Changed		Client Info		Changed	Changed	Not Changd
	Sample Status				NORMAL	ATTENTION	ATTENTION
	CONTAMINATION	J	method	limit/base	current	history1	history2
	Fuel		WC Method	>5	<1.0	<1.0	0.2
	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	17	13	3
	Chromium	ppm	ASTM D5185m	>20	<1	1	<1
	Nickel	ppm	ASTM D5185m	>2	0	1	<1
	Titanium	ppm	ASTM D5185m	>2	<1	<1	0
	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m	>25	3	4	2
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m	>330	5	13	8
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	250	61	50	59
	Barium	ppm	ASTM D5185m	10	0	1	2
	Molybdenum	ppm	ASTM D5185m	100	48	38	32
	Manganese	ppm	ASTM D5185m		<1	3	2
	Magnesium	ppm	ASTM D5185m	450	571	471	452
	Calcium	ppm	ASTM D5185m	3000	1977	1908	1793
	Phosphorus	ppm	ASTM D5185m	1150	839	838	892
	Zinc	ppm	ASTM D5185m	1350	1064	1056	1078
	Sulfur	ppm	ASTM D5185m	4250	2707	3177	3746
	CONTAMINANTS		method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	13	15
	Sodium	ppm	ASTM D5185m	>158	3	5	5
	Potassium	ppm	ASTM D5185m	>20	2	4	2
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.1	4.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0	23.6	20.1
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.7	22.0	17.0

Base Number (BN) mg KOH/g ASTM D2896 8.5

Recommendation

DIAGNOSIS

Resample at the next service interval to monit Please specify the brand, type, and viscosity of oil on your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in oil.

Fluid Condition

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

10.7

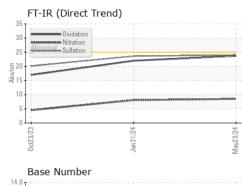
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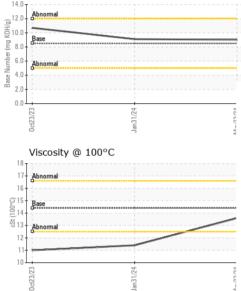
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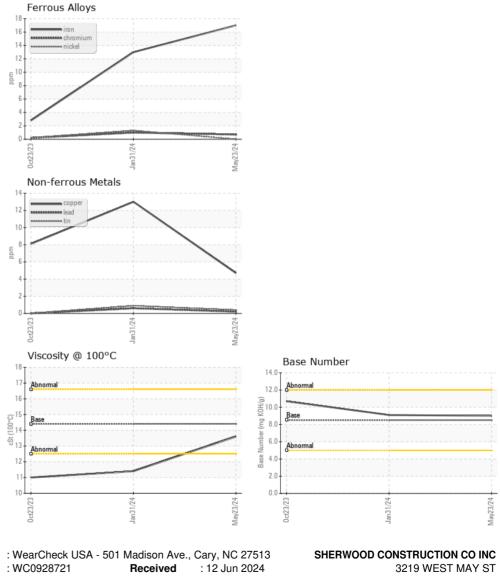
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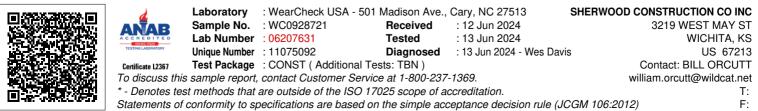
VIOLIAI





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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.6	11.4	11.0
GRAPHS						





Submitted By: BRANDEN JAQUIAS Page 2 of 2