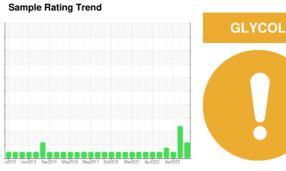


OIL ANALYSIS REPORT

OKLAHOMA/102/EG - CRANE 22.65L [OKLAHOMA^102^EG - CRANE]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)



Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 11537 hours)

All component wear rates are normal.

Contamination

Sodium and/or potassium levels remain high. Test for glycol is negative.

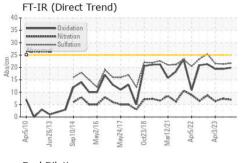
Fluid Condition

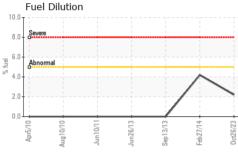
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

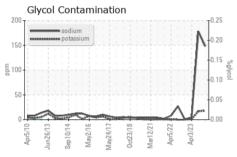
4L)		MZUTU JUNZU	is sepzui+ mayzui6 ma	nyzuri ustzuro marzuzi Aprzuzz	Aprzuzs		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0925191	WC0857418	WC0746783	
Sample Date		Client Info		06 Jul 2024	26 Oct 2023	03 Apr 2023	
Machine Age	hrs	Client Info		11537	1297	10998	
Oil Age	hrs	Client Info		277	299	10721	
Oil Changed		Client Info		N/A	Changed	N/A	
Sample Status				ATTENTION	ABNORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2	
Water		WC Method	>0.2	NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	4	7	10	
Chromium	ppm	ASTM D5185m	>20	2	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	<1	<1	<1	
Lead	ppm	ASTM D5185m	>40	12	17	<1	
Copper	ppm	ASTM D5185m	>330	52	63	0	
Tin	ppm	ASTM D5185m	>15	0	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	24	21	59	
Barium	ppm	ASTM D5185m	0	0	0	2	
Molybdenum	ppm	ASTM D5185m	0	70	72	39	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	0	485	461	458	
Calcium	ppm	ASTM D5185m		1788	1461	1574	
Phosphorus	ppm	ASTM D5185m		815	645	731	
Zinc	ppm	ASTM D5185m		906	823	874	
Sulfur	ppm	ASTM D5185m		3053	2259	2533	
CONTAMINANTS	8	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	5	3	
Sodium	ppm	ASTM D5185m		<u> </u>	<u>▲</u> 178	4	
Potassium	ppm	ASTM D5185m	>20	18	17	<1	
Fuel	%	ASTM D3524	>5	<1.0	<u>^</u> 2.2	<1.0	
Glycol	%	*ASTM D2982		NEG	NEG	NEG	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	7.0	7.4	6.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	21.3	21.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	19.4	19.4	
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	10.6	10.9	10.0	
	0						

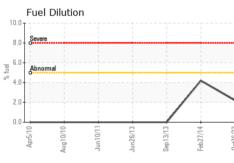


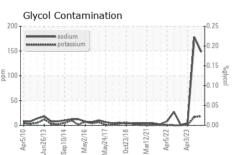
OIL ANALYSIS REPORT









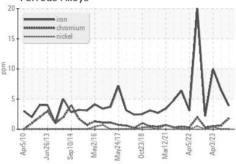


VISUAL						
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	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

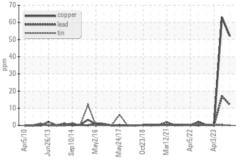
FLUID PROPER	HES					
Visc @ 100°C	cSt	ASTM D445	14	12.4	12.1	12.5

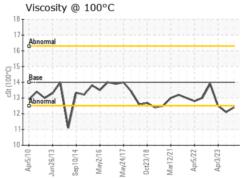
GRAPHS

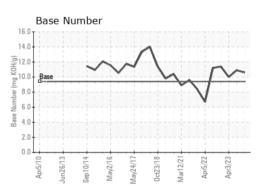
Ferrous Alloys



Non-ferrous Metals











Certificate 12367

Laboratory Sample No.

: WC0925191 Lab Number : 06237434 Unique Number : 11126268

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024

Tested : 16 Jul 2024 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, Glycol, TBN)

: 16 Jul 2024 - Jonathan Hester

WICHITA, KS US 67213 Contact: DOUG KING doug.king@sherwood.net T: (316)617-3161

SHERWOOD CONSTRUCTION CO INC

3219 WEST MAY ST

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: