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NORMAL

Machine Id

ATTITUDE CRANE (S/N 361.176)

Component Diesel Engine

Fluid CHEVRON DELO 400 LE 15W40 (41 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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0892693	WC0785622	WC0725397
Sample Date		Client Info		26 May 2024	07 Aug 2023	02 Nov 2022
Machine Age	hrs	Client Info		31594	27455	23147
Oil Age	hrs	Client Info		776	545	500
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
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	>90	7	6	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	2
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	3
Lead	ppm	ASTM D5185m	>40	11	2	1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		290	207	286
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		121	87	121
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		620	470	612
Calcium	ppm	ASTM D5185m		1834	1846	1633
Phosphorus	ppm	ASTM D5185m	1200	798	745	720
Zinc	ppm	ASTM D5185m	1300	963	941	899
Sulfur	ppm	ASTM D5185m	3200	3055	2508	2969
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	5
Sodium	ppm	ASTM D5185m		4	2	0
Potassium	ppm	ASTM D5185m	>20	2	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.8	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.3	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0	24.0	26.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Abs/.1mm	method *ASTM D7414	limit/base	current 19.6	history1 18.5	history2 22.2
FLUID DEGRADA						



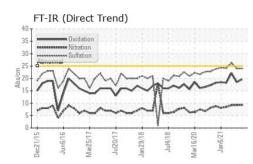
Abnormal

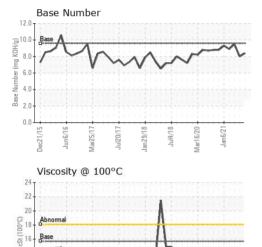
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OIL ANALYSIS REPORT





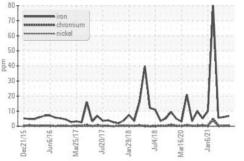
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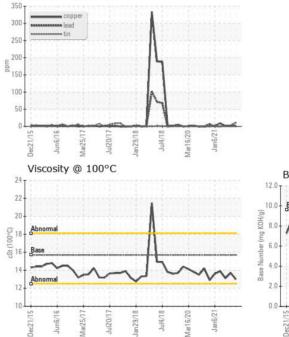


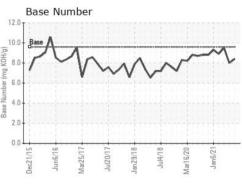
GRAPHS



Non-ferrous Metals







ASSOCIATED TERMINALS - CRANE

: 10 Jun 2024 : 13 Jun 2024 : 13 Jun 2024 - Sean Felton

CONVENT, LA US 70723 Contact: GREG JOSEY gjosey@associatedterminals.com

T:



Lab Number : 06205976 Tested Unique Number : 11073437 Diagnosed Test Package : FLEET Certificate 12367 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: (225)562-3515

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

Received

Report Id: STJCONKL [WUSCAR] 06205976 (Generated: 06/14/2024 08:43:12) Rev: 1

Laboratory

Sample No.

: WC0892693

Contact/Location: GREG JOSEY - STJCONKL