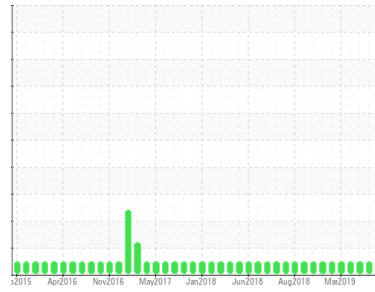




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

381.409

Machine Id

TALLEY PEREZ CRANE (S/N 381.409)

Component

Diesel Engine

Fluid

CHEVRON DELO 400 MULTIGRADE 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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0924961	WC0789532	WC0607031
Sample Date	Client Info	03 May 2024	29 Apr 2024	18 Nov 2021
Machine Age	hrs	27030	20044	5598
Oil Age	hrs	0	0	500
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

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	8	4	4
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >2	<1	<1	0
Titanium	ppm ASTM D5185m >2	1	<1	7
Silver	ppm ASTM D5185m >2	0	0	<1
Aluminum	ppm ASTM D5185m >20	3	3	2
Lead	ppm ASTM D5185m >40	<1	<1	4
Copper	ppm ASTM D5185m >330	1	<1	<1
Tin	ppm ASTM D5185m >15	<1	<1	<1
Antimony	ppm ASTM D5185m	---	---	<1
Vanadium	ppm ASTM D5185m	<1	<1	<1
Cadmium	ppm ASTM D5185m	<1	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 151	187	297	93
Barium	ppm ASTM D5185m 0.4	<1	<1	0
Molybdenum	ppm ASTM D5185m 250	118	116	77
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m 0	337	443	698
Calcium	ppm ASTM D5185m 2046	2432	1842	1681
Phosphorus	ppm ASTM D5185m 1043	982	785	781
Zinc	ppm ASTM D5185m 943	1210	957	878
Sulfur	ppm ASTM D5185m 5012	3792	3122	2426

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	5	5	4
Sodium	ppm ASTM D5185m	0	0	3
Potassium	ppm ASTM D5185m >20	5	3	2

INFRA-RED

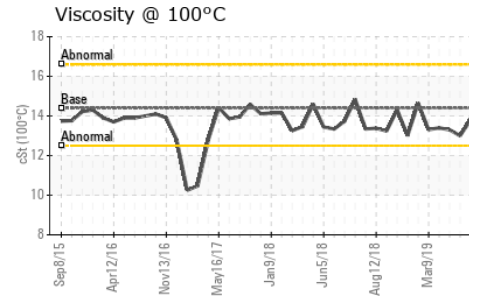
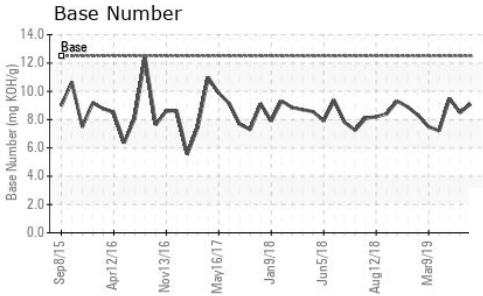
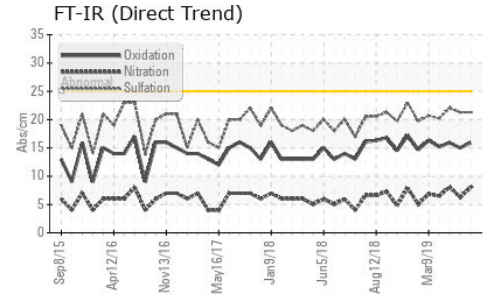
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >6	0.2	0.2	0.2
Nitration	Abs/cm *ASTM D7624 >20	8.0	6.3	8.1
Sulfation	Abs/.1mm *ASTM D7415 >30	21.3	21.3	22.0

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	15.9	15.0	15.9
Base Number (BN)	mg KOH/g ASTM D2896 12.5	9.1	8.5	9.5



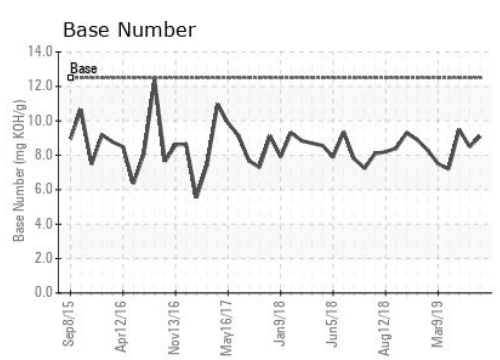
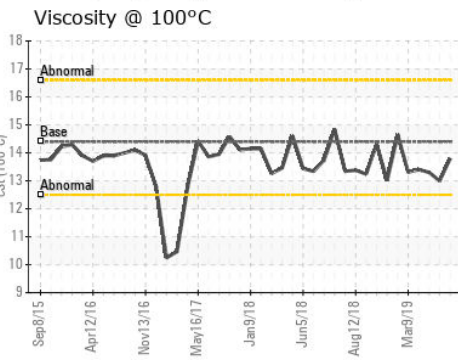
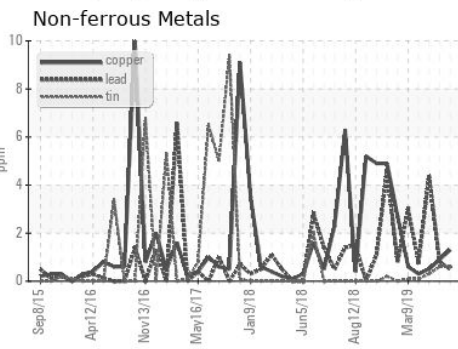
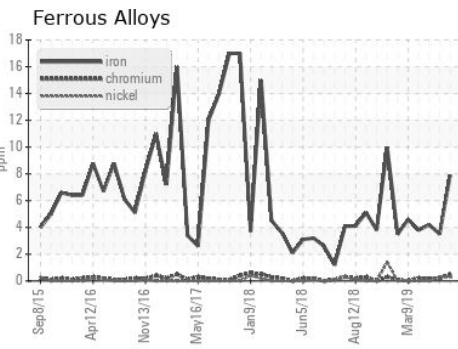
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.0	13.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0924961 **Received** : 13 May 2024
Lab Number : **06178120** **Tested** : 14 May 2024
Unique Number : 11029446 **Diagnosed** : 15 May 2024 - Sean Felton
Test Package : FLEET

ASSOCIATED TERMINALS - CRANE

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

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