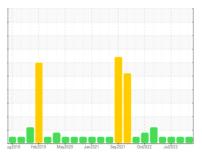


GREASE ANALYSIS

Materials Handling/NE Pedestal Crane WPD471231 CRANE PEDESTAL NORTH EAST

180° Grease

MOBIL MOBILGREASE XHP 222 (--- GAL)



Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Grease Condition

The condition of the grease is acceptable for the time in service.

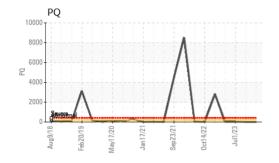
Contaminants

There is no indication of any contamination in the grease.

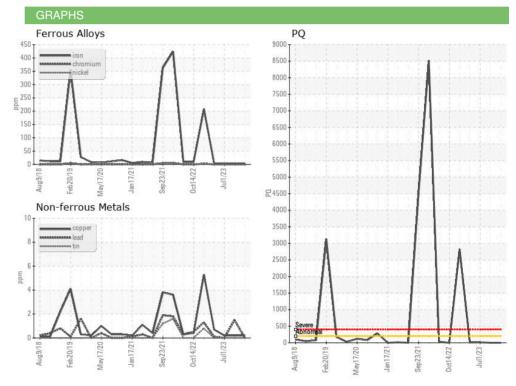
		ug2018 Feb	2019 May2020 Jan2	021 Sep2021 Oct2022		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP13994630	PP	PP13897519
Sample Date		Client Info		26 May 2024	27 Mar 2024	01 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Grease Age	hrs	Client Info		0	0	0
Grease Serviced		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>200	0	0	14
Iron	ppm	ASTM D5185(m)	>250	2	3	3
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Lead	ppm	ASTM D5185(m)	>25	0	2	0
Copper	ppm	ASTM D5185(m)	>75	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
ADDITIVES		method				history2
ADDITIVES Boron	ppm	method ASTM D5185(m)	limit/base	current 5	history1 6	history2 8
	ppm		limit/base			
Boron		ASTM D5185(m)	limit/base	5	6	8
Boron Magnesium	ppm	ASTM D5185(m) ASTM D5185(m)	limit/base	5 1	6	8
Boron Magnesium Manganese Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	5 1 0	6 2 0	8 2 0
Boron Magnesium Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	5 1 0 2	6 2 0 3	8 2 0 5
Boron Magnesium Manganese Molybdenum Phosphorus	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	5 1 0 2 117	6 2 0 3 116	8 2 0 5 135
Boron Magnesium Manganese Molybdenum Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	5 1 0 2 117 197	6 2 0 3 116 195	8 2 0 5 135 213
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony	ppm ppm ppm ppm ppm	ASTM D5185(m)		5 1 0 2 117 197 3	6 2 0 3 116 195 5	8 2 0 5 135 213 7
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)		5 1 0 2 117 197 3	6 2 0 3 116 195 5	8 2 0 5 135 213 7 history2
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)		5 1 0 2 117 197 3 current	6 2 0 3 116 195 5 history1	8 2 0 5 135 213 7 history2
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)		5 1 0 2 117 197 3 current 0	6 2 0 3 116 195 5 history1 0 <1	8 2 0 5 135 213 7 history2 <1 <1
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)		5 1 0 2 117 197 3 current 0 <1	6 2 0 3 116 195 5 history1 0 <1 8	8 2 0 5 135 213 7 history2 <1 <1 8
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)		5 1 0 2 117 197 3 current 0 <1 4	6 2 0 3 116 195 5 history1 0 <1 8 11	8 2 0 5 135 213 7 history2 <1 <1 8 13
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)		5 1 0 2 117 197 3 current 0 <1 4 10 206	6 2 0 3 116 195 5 history1 0 <1 8 11 205	8 2 0 5 135 213 7 history2 <1 <1 8 13 222
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur	ppm	ASTM D5185(m)	limit/base	5 1 0 2 117 197 3 current 0 <1 4 10 206 779	6 2 0 3 116 195 5 history1 0 <1 8 11 205 774	8 2 0 5 135 213 7 history2 <1 <1 8 13 222 779
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	limit/base	5 1 0 2 117 197 3 current 0 <1 4 10 206 779 current	6 2 0 3 116 195 5 history1 0 <1 8 11 205 774 history1	8 2 0 5 135 213 7 history2 <1 <1 8 13 222 779 history2
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) METHOD METHOD ASTM D5185(m)	limit/base	5 1 0 2 117 197 3 current 0 <1 4 10 206 779 current 0	6 2 0 3 116 195 5 history1 0 <1 8 11 205 774 history1 0	8 2 0 5 135 213 7 history2 <1 <1 8 13 222 779 history2 <1
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS Silicon Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	limit/base limit/base >150	5 1 0 2 117 197 3 current 0 <1 4 10 206 779 current 0 0	6 2 0 3 116 195 5 history1 0 <1 8 11 205 774 history1 0 <1	8 2 0 5 135 213 7 history2 <1 <1 8 13 222 779 history2 <1 <1 <1
Boron Magnesium Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS Silicon Potassium GREASE CONDITIONAL Manganese Manganese Molybdenum Manganese Molybdenum Molybde	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) METHOD METHOD ASTM D5185(m) METHOD ASTM D5185(m) METHOD	limit/base limit/base >150 limit/base	5 1 0 2 117 197 3 current 0 <1 4 10 206 779 current 0 0 current	6 2 0 3 116 195 5 history1 0 <1 8 11 205 774 history1 0 <1	8 2 0 5 135 213 7 history2 <1 <1 8 13 222 779 history2 <1 <1 <1 history2



GREASE ANALYSIS











CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Lab Number : 02641879 Unique Number : 5799418

: PP13994630

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 13 Jun 2024

Tested : 18 Jun 2024 Diagnosed : 18 Jun 2024 - Kevin Marson

Test Package : GRS 1 (Additional Tests: BottomAnalysis) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

ExxonMobil Canada East Ltd.

Hebron-Materials and Repair Coordin, Suite 1000, 100 New Gow St. John's, NL

CA A1C 6K3 Contact: Liam Maher liam.m.maher@exxonmobil.com

T: (709)273-3729

Contact/Location: Liam Maher - EXXSTJ