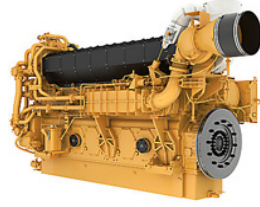
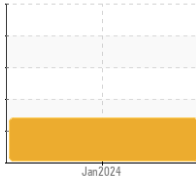


OFF SPEC

Sample Rating Trend



Machine Id
K604
 Component
Natural Gas Engine - Hydraulic Actuator
 Fluid
PETRO CANADA PRODURO TO-4+ XL SYN BLEND LOTEMP (--- LTR)



OIL ANALYSIS REPORT

Sample		Wear Metals												Contaminants			Additives										
Sample Number	Sample Date	Iron	Chromium	Nickel	Titanium	Silver	Aluminum	Lead	Copper	Tin	Antimony	Vanadium	Beryllium	Cadmium	Silicon	Sodium	Potassium	Boron	Barium	Molybdenum	Manganese	Magnesium	Calcium	Phosphorus	Zinc	Sulfur	Lithium
		>20	>20	>20			>20	>20	>20	>20					>15		>20	0	0	1	1	9	3080	1136	1269	3614	
PC0085492	17 Jan 2024	<1	0	<1	0	0	1	<1	6	0	0	0	0	0	2	<1	<1	2	0	0	0	7	1225	264	298	2102	<1



Sample					Physical Tests						Other Tests										
Sample Number	Machine Age	Oil Age	Oil Changed	Filter Changed	Visc @ 40°C	Visc @ 100°C	Viscosity Index (VI)	Water	Glycol	Fuel	Oxidation (Diff)	Nitration (Diff)	Sulfation (Diff)	Acid Number (AN)	Base Number (BN)	Particles >4µm	Particles >6µm	Particles >14µm	Oil Cleanliness		
	hrs	hrs		---	35.1	7.4	184	>0.05	---	---	---	---	---	3.95	---	>5000	>1300	>160	>19/17/14	---	---
PC0085492	6606	0	Not Changed	---	119	13.2	105	0.003	---	---	---	---	---	0.25	---	129	46	6	14/13/10	---	---

Recommendations

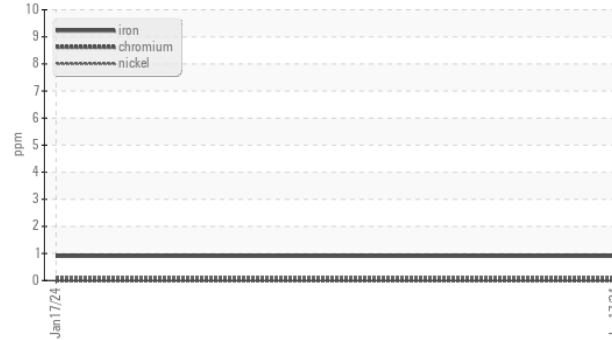
17 Jan 2024
 Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA PRODURO TO-4+ XL SYN BLEND LOTEMP, however, a fluid match indicates that this fluid is Petro-Canada Sentron LD 3000. Please confirm the oil type and grade on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Interpretation

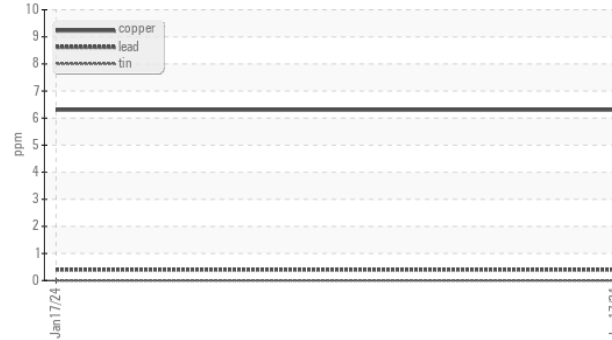
17 Jan 2024
 All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Date	Color	Bottom
17 Jan 2024		
	no image	no image
	no image	no image
	no image	no image
	no image	no image
	no image	no image

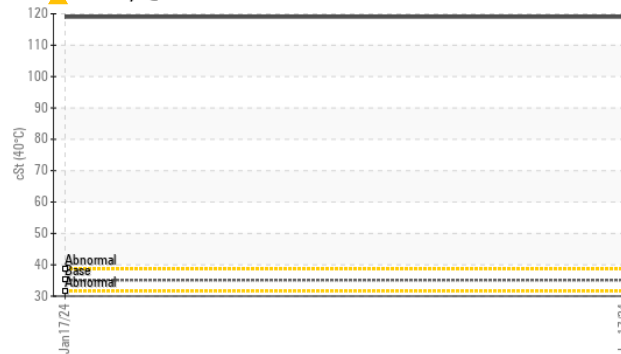
Ferrous Alloys



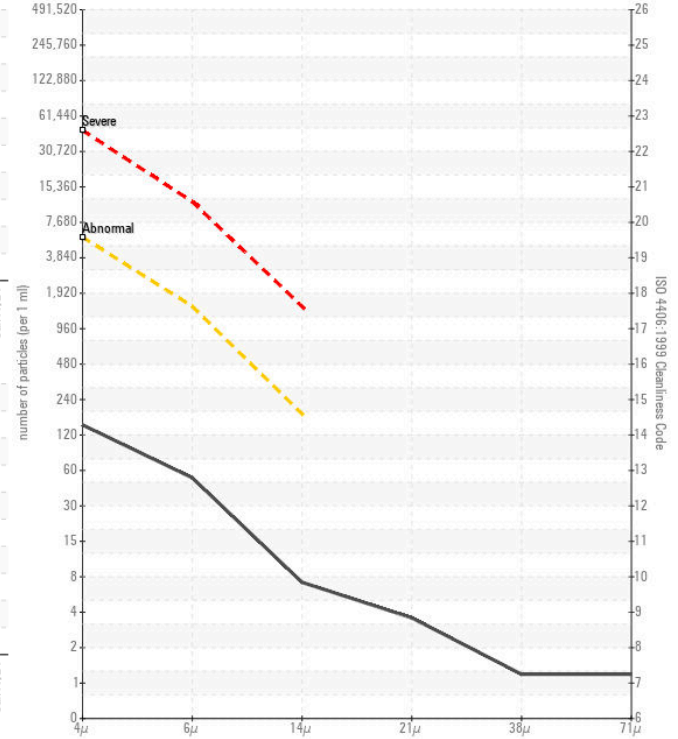
Non-ferrous Metals



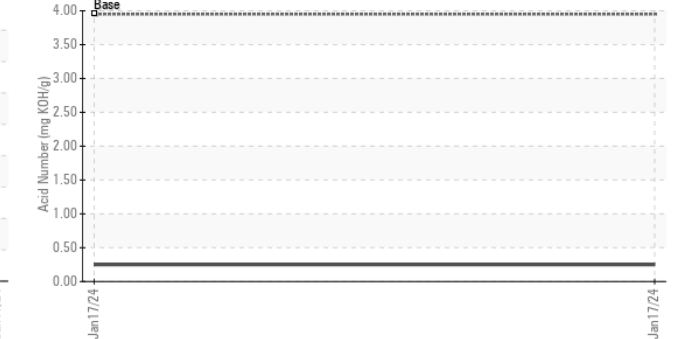
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0085492 **Received** : 02 Feb 2024
Lab Number : 02613129 **Tested** : 05 Feb 2024
Unique Number : 5722224 **Diagnosed** : 05 Feb 2024 - Bill Quesnel
Test Package : PLANT (Additional Tests: FT-IR(Diff), KV100, VI)

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.

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 Contact: Eldon Weaver
 eweaver@nvaenergy.com